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instructional materials

Information Technology and
Communication Services

College of Agricultural, Consumer and Environmental Sciences

CATALOG

2000



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Orders may be placed by calling Information Technology and Communication Services. Please have an authorized purchase order number and Federal Employer's Identification or Social Security number before placing your order by telephone. **For orders or information call 800/345-6087 or FAX 217/333-3917. E-mail orders may be directed to ACESPUBS@uiuc.edu.**

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Payment is due upon receipt of invoice. Checks must be drawn upon a U.S. bank and payable in U.S. currency. Payment by MasterCard or Visa is accepted. Prices are subject to change without notice. University policy states that accounts that are unpaid after 30 days will be charged a 1% or \$1.00 minimum monthly charge on the amount that is 30 days or more past due. Charges over 120 days old will be sent to a collection agency by the Accounts Receivable Section of the Accounting Division of the University.

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Our return policy allows return of publications **except** Agriscience Kits, Videotapes, Computer Software, Photo CDs, and Digital Slide Sets. Credit will be issued **ONLY** if material is listed in the current catalog and is in original condition. Material must be returned prepaid within 90 days of the date of purchase. The invoice number on which the materials were billed must be included with the return. Returned items must be in original condition or they will be sent back to purchaser without credit.

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A statement of total cost of material ordered and shipping charges will be submitted before shipment. Orders must be prepaid, including surface or airmail charges. Payment must be made to the **University of Illinois** either in the form of U.S. currency money order, or by check drawn on a U.S. bank in U.S. currency. Payment by MasterCard or Visa is accepted.

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Description of Instructional Materials

Units

Units cover a particular subject and are designed for use as a text by every student in the class. They are 8 1/2" by 11" in size and punched for a three-ring binder.

Filmstrips

Filmstrips are single-frame, 35mm color films used on a standard filmstrip projector. Some text material is generally shown on each frame so that a separate script may be unnecessary. However, most filmstrips are accompanied by a study guide or script that is included in the filmstrip price. Cassette tapes narrating study guide text are listed when available for the filmstrips.

Slide Sets

Standard 2" x 2" color slides usually include material identical to the filmstrip of the same title and number. Slide sets may have an accompanying study guide which is included in the slide set price. Cassette tapes narrating study guide text are listed for slide sets when available.

Transparencies

These are 8 1/2" x 11" instructional illustrations printed on clear plastic for overhead projection. Each transparency is accompanied either by a printed paper copy, usually with some text on the back, or by a study guide with text. Some transparencies have cassette tapes for narration. Each set is packaged in a manila pocket folder with the title of the set stamped on the tab.

Study Guides

Study guides are 8 1/2" x 11" printed booklets that may accompany filmstrips, slide sets, transparency sets or photo CDs of the same title and number. They include reduced-size black and white picture frames adjacent to the narration or script for the frame. Study guides are used for narration, to review the presentation, and for independent study. They may be purchased separately for \$2.00, but are included in the price of filmstrips, slide sets, transparency sets, and photo CDs, and are listed with accompanying visuals when available.

Cassette Tapes

Cassette tapes fit a standard cassette tape player and are used to narrate filmstrips, slide sets, or transparency sets of the same title and number. The information in the cassette is the same as contained in the study guide or script. The * shown in catalog descriptions indicates that a cassette tape of the study guide is available at a cost of \$3.85.

Flash Cards

Full-color photographs presented on glossy-finished card stock include descriptions on the back. These 5" x 7" cards are suitable for individual or classroom use.

Color Photo Sheets and Booklets

Color photo sheets, 8 1/2" x 11", consist of detailed close-up pictures on one side and concise descriptions on the reverse side. *Crop Plants, Diseases and Pests of Horticulture Plants*, and *Diseases and Pests of Field Crop Plants* are booklets with photo sheets, 8 1/2" x 11", spiral-bound.

Diseases of Soybeans and Corn, *Insect Pest Identification of Corn, Soybeans, and Alfalfa*, and *Vegetative Identification of Common Row Crop Weeds* are pocket-sized spiral-bound pocketbooks. These informative color pocketbooks are useful for identification purposes in the classroom or in the field.

Agriscience Kits

Agriscience teaching kits are designed for use by teachers who teach science to students K through 8. High school agriculture teachers find these kits valuable for teaching Agriscience units to their secondary classes. These self-contained easy-to-use kits each contain an activity guide which provides both teacher and student with useful information, step-by-step directions for activities and exercises, and numerous worksheets. All the materials for conducting the activities and exercises are packaged in each kit.

Computer Software

Computer software programs are available for IBM and IBM-compatible computers on 3.5-inch disks. Operating instructions are provided with each software program.

Photo CDs

Photo CDs are Kodak Photo CDs which may contain up to 100 images each. Kodak Photo CD access software or some other graphics program will be required to view the images on these disks (viewing software is not included on the photo CDs sold by ITCS Instructional Materials).

IBM/IBM-compatible computer system requirements

Recommended configuration

- MICROSOFT WINDOWS 3.1, WINDOWS 95 (or later), or WINDOWS NT software
- 120 MHz PENTIUM or better
- 32 MB RAM
- 75 MB free disk space
- SVGA video card and monitor

MACINTOSH computer system requirements

Minimum configuration

- POWER MACINTOSH or POWER PC based
- MACINTOSH OS-compatible
- 24+ MB RAM
- 8+ MB free disk space
- 8-bit color card; compatible monitor

Digital Slide Sets

Digital slide sets are distributed on two different media—3.5-inch floppy diskettes (DS) and CD-ROM (MDS). System requirements are an IBM/IBM-compatible computer and Windows 3.x or better.

DS—these products are a single presentation as compressed files on floppy diskettes. Each program has a runtime slide show player, help files, the presentation, and a decompression and install utility. Includes printed documentation and suggestions for use. A single presentation may occupy up to 10 MB or more of hard disk space.

MDS—these products contain multiple uncompressed DS presentations. The advantages of digital slide sets on CD-ROM include 1) the presentations can run directly from the CD-ROM, eliminating the troublesome step of transferring from diskettes to a computer hard drive, 2) because the presentations run from the CD-ROM, they won't occupy hard drive space, 3) there is no threat of overwriting the information on the CD-ROM, and 4) the CD-ROMs are portable, so they can be reviewed at home in preparation for upcoming lessons in the classroom. MDS CD-ROMs are organized into folders with one presentation each. Each folder has a text file with information about how the presentation is organized and contains some guides to using the presentation.

Videotapes

Videotapes are VHS format; available in NTSC, PAL, and SECAM.

Agribusiness Management

Units

Agricultural Business Procedures, 32p U6004	\$3.20
Agricultural Credit Instruments, 12p U6007	\$1.20
What Factors Affect Prices of Agricultural Products?, 12p U6009	\$1.20
Inventory Management & Control, 8p U6010	\$.80
Common Ways of Organizing a Business, 8p U6014	\$.80
Mathematical Applications in Agriculture, 24p U6015	\$2.40
Using Insurance in the Farm Business, 12p U6017	\$1.20



Agricultural Facts and Resources, 28p Measurements and conversions, commodity weights and measures, production charts and equations, and financial equations assist agricultural production and agribusiness problem solving.

U6036 \$2.80

Transparencies, Filmstrip, Slide Set

Mathematical Applications in Agriculture F330 Filmstrip, 40 fr.	\$ 6.00
S330 Slide set, 40 fr.	\$10.00
T330 Transparencies, 24 fr.	\$ 7.40

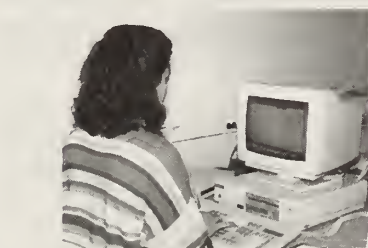
Human Relations & Salesmanship

Units

Applying for a Job, 12p U6001b	\$1.20
Human Relations in Agricultural Business, 12p U6003	\$1.20
International Agriculture Exchange & Work Opportunities, 16p U6021	\$1.60
Marketing Products and Merchandise in Agricultural Businesses, 32p U6026	\$3.20
The Relationship of Sales in Agriculture, 12p U6030	\$1.20
Careers in Agricultural Sales, 16p U6031	\$1.60
Agricultural Sales Communications, 8p U6032	\$.80
Steps in Preparing for an Agricultural Sales Call, 12p U6033	\$1.20
Conducting an Agricultural Sales Call, 20p U6034	\$2.00

Computers & Software

Units



Introduction to Computers in Agriculture, 12p U6023	\$1.20
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Using Computers in Agriculture, 32p U6029	\$3.20
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Spreadsheet Applications for Agricultural Business, 24p U6035	\$2.40
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IBM Computer Programs

Financial Summary and Statement Program CP410	\$20.00
Financial Calculator CP415	\$15.00
Cash Flow Statement for Production Agriculture CP416	\$15.00
Amortization Calculator Calculates and displays a repayment schedule for a loan. CP417	\$15.00
Livestock Feeder Calculator Designed to prepare budgets for feeder pig and feeder cattle finishing. Production and marketing information is needed when entering data while preparing a budget. Performs the various computations when budgeting for livestock feeder finishing and will print a copy. CP420	\$15.00


Crop Production Budgets
Designed to assist students and instructors when making crop production decisions. Corn, soybean, and wheat budgets are presented with user input options to vary numerous production factors. Input costs that appear when the program is first started can be substituted with more current information.

CP421	\$15.00
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Agriculture Conversions

Designed to calculate various measurement conversions and financial analyses commonly found in agricultural business and production. This program may be used in conjunction with the subject-matter unit U6036, *Agricultural Facts and Resources*. CP422 will operate on a PC in DOS or Windows and from a hard drive or the program diskette.

 CP422 \$20.00

Livestock and Dairy Cattle Contest Calculator

Designed to assist in tabulating livestock and dairy cattle contest scores and rankings. This program can total ring scores, rank individuals, select top three individual scores per team, and total team scores, and print results.

 CP423 \$25.00

NOTE: IBM/IBM compatible computer programs are on 3.5" disks.

Credit and Financial Management

Units

Using Credit to Increase Farm Earnings, 12p

U2024b \$1.20

Determining Credit Needs on the Farm, 12p

U2025b \$1.20

Planning for Repayment of Loans, 20p

U2026b \$2.00

Sources of Farm Credit, 12p

U2027b \$1.20

Factors Involved in the Borrowing Process, 8p

U2028b \$.80

Using Farm Real Estate Loans, 8p

U2033a \$.80

Farm Planning

Unit

Planning a Profitable Farm Business, 4p

U2001c \$.40

Other Materials

Farm Management Manual, 24p

U310 \$2.40

Partial Budget Forms, set of 4

Z372 \$.40

Partial Budgets & Break-Even Problems, 8p

Q372 \$.80

Key for Q372, 4p

K372 \$.40

Marketing and Business Management

Units

Agricultural Business Management-Principles That Affect Production, 24p

U2040a \$2.40

Fundamentals of Marketing Agricultural Products, 8p

U2046 \$.80

Transparencies

Marketing The Easy Way!

Hedging and options methods of trading are included.

T350 44 fr. \$13.40

Digital Slide Set



Marketing The Easy Way!

This digital slide set contains the same information as the transparency set T350 of the same title. DS340 illustrates various aspects of commodity marketing. Hedging and options methods of trading are covered utilizing graphical images.



DS340 47 fr. \$20.00

Records

Unit

Standards for Measures of Efficiency for 1999, 8p

This item, based on FBFM records from the previous year, provides standards for use in analyzing and evaluating student records. It is revised each year.

U2020 \$.80



* Cassette tapes of study guides are available at a cost of \$3.85.

Ag Mechanics Lab

Units

Safety in the Shop, 32p
U3022a \$3.20

Student Safety Tests, 32p
Q3022 \$3.20

Teachers' Key for Q3022
K3022 \$3.20

Micrometers & Related Measuring Tools, 8p
U3023 \$.80

Planning a Woodworking Project, 20p
U3051a \$2.00

Transparencies, Study Guide

Shop Tool Identification
171 shop tools are divided into 6 categories: carpentry and woodworking, engine and machinery, metalworking, various construction skills, hand power, and horticulture.

T457 24 fr., w/guide \$18.95

Other Materials



Charts on Safety Rules
27 laminated 8 1/2" x 11" charts constantly remind students of the importance of working safely. Heavy black print is highly visible on bright yellow paper. Special lists of safety rules should be posted in every work area.

Z490.1 General Shop \$1.10

Z490.2 Everyone Must Wear Safety Glasses at all Times in Shop \$1.10
Z490.3 Think Safety to be Safe .. \$1.10
Z490.4 No Horseplay or Running in Shop \$1.10
Z490.5 Tools Must be Returned & Shop Cleaned After Each Class . \$1.10
Z490.20 Hand Tool \$1.10
Z490.21 Electrical Equipment \$1.10
Z490.22 Vehicle and Machinery Repair \$1.10
Z490.23 Soldering and Sheet Metal Work \$1.10
Z490.30 Portable Circular Saw .. \$1.10
Z490.31 Tilting Arbor Saw \$1.10
Z490.32 Radial Arm Saw \$1.10
Z490.33 Saber and Reciprocating Saw \$1.10
Z490.34 Band Saw \$1.10
Z490.35 Power Metal-Cutting Saw \$1.10
Z490.40 Jointer \$1.10
Z490.41 Router and Planer \$1.10
Z490.42 Sander \$1.10
Z490.43 Stationary Grinder \$1.10
Z490.44 Portable Grinder \$1.10
Z490.45 Drill Press \$1.10
Z490.46 Portable Drill \$1.10
Z490.60 Shielded Metal Arc Welder .. \$1.10
Z490.61 Oxyfuel Welder \$1.10
Z490.62 Inert Gas Shielded Arc Welder \$1.10
Z490.63 Spot Welder \$1.10
Z490.70 Gas Forge \$1.10

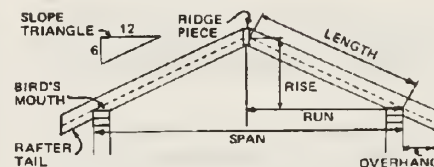
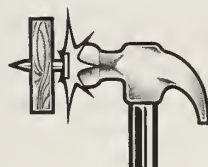
MZ490 Set of 27 Charts on Safety Rules \$23.75

Carpentry & Construction

Units

Concrete Improvements for Farm & Home, 28p
U3007a \$2.80

Using the Carpenter's Square, 20p
U3009a \$2.00



Recommended Practices for Building with Concrete Masonry, 16p
U3034 \$1.60

Plywood Applications in Farm Construction, 28p
U3042 \$2.80

Metal Roofing & Siding for Farm Structures, 16p
U3045 \$1.60

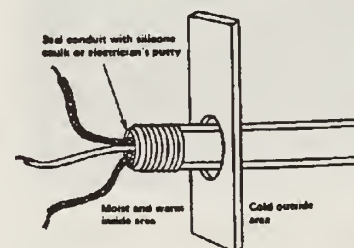
Paints and Painting, 20p
U3053 \$2.00

Lumber: Grading, Selecting, Buying, Using, and Storing, 20p
U3055 \$2.00

Designing, Installing, Maintaining and Repairing Plumbing Systems, 40p
U3056 \$4.00

Collecting and Using Solar Energy, 32p
U3060 \$3.20

Filmstrip, Slide Set, Study Guide, Cassette Tape



Electrical Wiring in Livestock Confinement Buildings
This program describes electrical wiring materials and techniques to be used in agricultural buildings.

F406 Filmstrip, 70 fr., w/guide* \$11.40
S406 Slide set, 70 fr., w/guide* \$18.40

Transparencies, Study Guides, Cassette Tapes

Carpentry Transparencies

Students planning a construction project may study these to learn to use the steel square.

Rafter Marking

T422 31 fr., w/guide* \$10.40

Steel Square

T423 25 fr. \$7.70

Lumber-Buying, Grading, Selecting, Storing and Using

Use with the unit U3055 with the same title. Features illustrations, examples, and tables about lumber.

T426 50 fr., w/guide* \$35.85

Planning a Woodworking Project

Includes illustrations, tables, forms, and plans. Designed for the beginning student.

T427 34 fr., w/guide* \$11.30

Electricity

Units, Exercises, Teacher's Keys



Planning for Electrical Wiring, 48p

U3003c \$4.80

Electrical Hazards in Home, Farm, and Business, 40p

U3012a \$4.00

Electrical Wiring Procedures, 28p

U3016a \$2.80

Electrical Wiring Exercises, 28p

Z3016b \$2.80

Using Three-Phase Electrical Power on the Farm, 8p

U3038 \$.80

Electrical Controls in Agriculture, 20p

U3057 \$2.00

Electrical Controls Exercises, 52p

Z3057a \$5.20

Instructor's Key to Z3057a, 16p

K3057a \$1.60

Selecting Electric Motors for Use in Agriculture, 24p

U3058 \$2.40

Installing and Caring for Electric Motors in Agriculture, 28p

U3059 \$2.80

Selecting Equipment for Electrical Installations, 24p

U3061 \$2.40

Filmstrips, Slide Sets, Study Guides, Cassette Tapes

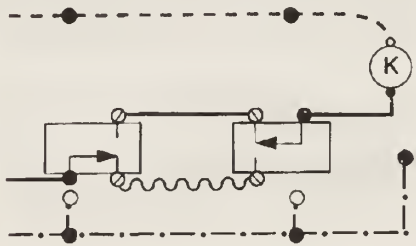
Basic Electrical Wiring and Diagramming

Wiring plans, graphic and schematic electrical symbols, and wiring diagrams are illustrated and explained.

F401.1 Filmstrip, 60 fr., w/guide* \$24.00

S401.1 Slide set, 60 fr., w/guide* \$36.00

..... \$36.00



Diagramming Electrical Wiring Circuits

Lighting circuits containing single-pole, 3-way, and 4-way switches in various configurations are diagrammed.

F401.2 Filmstrip, 40 fr., w/guide* \$17.00

S401.2 Slide set, 40 fr., w/guide* \$25.00

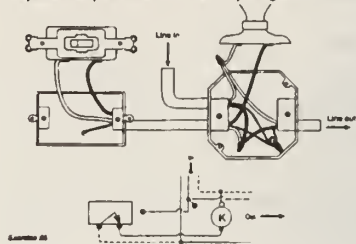
..... \$25.00

Identification of Electrical Wiring Items

F404c Filmstrip, 66 fr. \$26.10

Transparencies, Study Guide

Keyless Lamp Fixture Controlled By Single-Pole Switch



Wiring Exercises

The illustrations and diagrams for 48 electrical wiring exercises are clearly drawn and easy to follow. The 32-page study guide discusses and explains each transparency in detail.

T400a 55 fr., w/guide \$39.10

Machinery

Units

Introduction to Combines, 12p

U3047 \$1.20

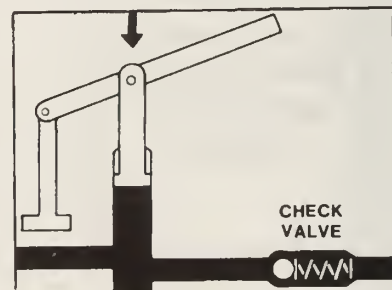
Combines-Selecting and Servicing, 16p

U3048 \$1.60

Combines-Reducing Harvesting Losses, 28p

U3049 \$2.80

Transparencies, Study Guide



Basic Principles of Hydraulics

Emphasis is on hydraulic principles, basic formulas, pistons, pumps, valves, and design functions of hydraulic systems.

T440 59 fr., w/guide \$41.70

Small Engines

Units

Small Engines—Principles of Operation, Trouble-Shooting & Tune-Up, 16p

U3014 \$1.60

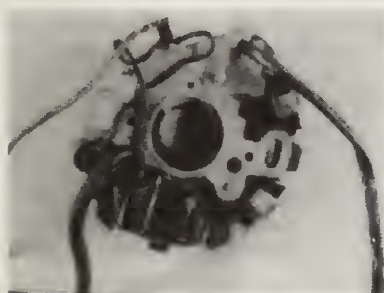
Small Engines—Repair and Overhaul, 20p

U3019 \$2.00

The Two-Cycle Engine, 20p

U3020 \$2.00

Filmstrips, Slide Sets, Study Guides, Cassette Tapes



Small Engine Parts and Functions Series

Fuel-Air Induction

F486-1 Filmstrip, 80 fr., w/guide* \$31.00

S486-1 Slide set, 80 fr., w/guide* \$47.00

Compression

F486-2 Filmstrip, 80 fr., w/guide* \$31.00

S486-2 Slide set, 80 fr., w/guide* \$47.00

Ignition

F486-3 Filmstrip, 60 fr., w/guide* \$24.00

S486-3 Slide set, 60 fr., w/guide* \$36.00

Secondary Functions and Special Tools

F486-4 Filmstrip, 80 fr., w/guide* \$31.00

S486-4 Slide set, 80 fr., w/guide* \$47.00

Small Engine Series

MF486 4 Filmstrips, w/guides* \$93.60

MS486 4 Slide sets, w/guides* \$141.60

Transparencies

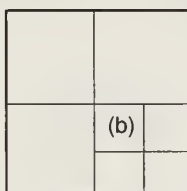
Small Gas Engines

Basic principles of small engine operation, repair and overhaul, and maintenance are included.

T489 50 fr. \$33.85

Surveying

Units, Test Questions, Teacher's Key



N.W. 1/4 of S.E. 1/4 40 acres

Land Surveys and Descriptions, 8p

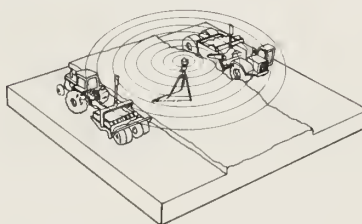
U2042 \$.80

Test Questions

Q2042 pkg. of 10 \$1.50

Teacher's Key for Q2042

K2042 \$.65



Surveying in Agriculture, 44p

U3010b \$4.40

Filmstrips, Slide Sets

Surveying Series

Presents information in photographs, illustrations, and diagrams.

Using the Steel Tape in Surveying

F436a Filmstrip, 36 fr. \$13.60

S436a Slide set, 36 fr. \$20.80

Recording Field Notes for Surveying

F437a Filmstrip, 41 fr. \$15.35

S437a Slide set, 41 fr. \$23.55

Using the Level in Farm Surveying

F438a Filmstrip, 79 fr. \$28.65

S438a Slide set, 79 fr. \$44.45

Staking Out a Building Site

F439a Filmstrip, 33 fr. \$12.55

S439a Slide set, 33 fr. \$19.15

Surveying Series

MF436a 4 Filmstrips \$56.10

MS436a 4 Slide sets \$86.35

Other Materials

Field Book for Surveying Notes

Z436 \$ 1.50

Tractors & Large Engines

Transparencies, Study Guide

Tractor Safety

Safety rules and procedures presented apply to all sizes of tractors. The 24-page study guide includes information about each transparency.

T485a 50 fr., w/guide \$35.85

Welding & Metalwork

Units

Oxyacetylene Welding and Cutting,

28p

U3001a \$2.80

Shielded Metal-Arc Welding, 48p

U3004a \$4.80

Soldering for Home, Farm and Shop Applications, 24p

U3027 \$2.40

Tungsten Inert Gas (TIG) Welding, 32p

U3036 \$3.20

Metal Inert Gas (MIG) Welding, 44p
U3037 \$4.40

Filmstrips

Arc Welding Filmstrip Series
Available only as a complete set.

Process, Equipment and Safety
F450 Filmstrip, 45 fr.

Flat Position Welding
F451 Filmstrip, 63 fr.

Vertical, Horizontal, and Overhead
Position
F452 Filmstrip, 34 fr.

Arc Welding Series
MF450 Set of above 3 Filmstrips
..... \$34.00

Miscellaneous

Filmstrips, Slide Sets, Study Guides, Cassette Tapes

Groundwater Series

These discuss where groundwater occurs, how it is discovered and stored, how it moves below the surface, how reserves are replenished, and how groundwater becomes contaminated.

Groundwater Resources

F490 Filmstrip, 52 fr., w/guide*
..... \$8.70
S490 Slide set, 52 fr., w/guide*
..... \$13.90

Groundwater Protection

F491 Filmstrip, 62 fr., w/guide*
..... \$10.20
S491 Slide set, 62 fr., w/guide*
..... \$16.40

Agricultural Mechanics
Career Development
Event registration cards
are listed in the
MISCELLANEOUS section
under Judging Materials.



* Cassette tapes of study
guides are available at
a cost of \$3.85.

Agriscience

Curriculum Materials

Biological Science Applications in Agriculture-Plant Science (BSAA-I) encompasses plant growth, reproduction, and processing and relates them to basic biological concepts. **Animal Science (BSAA-II)** is designed to reinforce and extend students' understanding of science by associating scientific principles and concepts with relevant applications in agriculture. These curricula, developed by Agricultural Education faculty at the University of Illinois at Urbana-Champaign, were the first in a series of new agriculture science courses created for the secondary schools.

BSAA-I Biological Science Applications in Agriculture-Plant Science, 35 lab exercises, 356p in 3-ring binder \$30.00
TS-B-I Technical Supplements for Biological Science Applications in Agriculture: Plant Science
 72 pages to insert \$5.00

BSAA-II Biological Science Applications in Agriculture-Animal Science, 30 lab exercises, 362p in 3-ring binder \$30.00
TS-B-II Technical Supplements for Biological Science Applications in Agriculture: Animal Science
 60 pages to insert \$5.00

Physical Science Applications in Agriculture (PSAA-I and PSAA-II) covers production, environment, structures, and power and relates them to basic concepts in chemistry and physics. These hands-on, laboratory science curricula give both agriculture and science teachers a new tool for improving course content by connecting the science of agriculture to corresponding agriculture practices.

PSAA-I Physical Science Applications in Agriculture I, 30 lab exercises, 332p in 3-ring binder \$30.00
TS-P-I Technical Supplements for Physical Science Applications in Agriculture I
 72 pages to insert \$5.00

PSAA-II Physical Science Applications in Agriculture II, 30 lab exercises, 271p in 3-ring binder \$30.00
TS-P-II Technical supplements for Physical Science Applications in Agriculture II
 72 pages to insert \$5.00

Agriscience Kits



Ten Agriscience Teaching Kits are designed to help teach science to students K through 8. These self-contained, easy-to-use kits help students learn science through agriculture.



Eggciting Experiments—Chick Incubation and Embryology

Students participate in a 5-week study of living organisms including incubation of chicken eggs, charting events as the embryos develop in the eggs, and observation and care of the hatched chicks.

Complete Kit
 AK-01 with Activity Guide and Videotape \$216.00

Consumable Replacement Pack
 AK-01.1 \$25.20



Videotapes

Videotapes were produced by the Illinois Farm Bureau for ten kits—AK-01 thru AK-10. Field advisors from Facilitating Coordination in Agriculture Education (FCAE) explain each of the ten kits and provide useful directions for their effective use.

Activity Guide Only
 AK-01.2 (in 3-ring binder) \$9.80

Videotape Only
 AK-01V \$6.50



Agriculture Renews Our Planet—Growing Energy for the Future

Students compare soyink with petroleum-based ink, make biodegradable plastics from corn, and compare renewable and nonrenewable natural resources.

Complete Kit
 AK-02 with Activity Guide \$155.50

Consumable Replacement Pack
 AK-02.1 \$39.50

Activity Guide Only
 AK-02.2 (in 3-ring binder) \$5.95

Videotape Only
 AK-02V \$6.50



Insects—Agriculture's Foes or Friends

Students study the parts of a grasshopper and compare it to close relatives, study and compare honeybee queens, drones, and workers, and study the role of the honeybee in plant pollination (no Replacement Pack).

Complete Kit
 AK-03 with Activity Guide and Videotape \$117.00

Activity Guide Only
 AK-03.2 (in 3-ring binder) \$7.05

Videotape Only
 AK-03V \$6.50



Probing Our Soils—Getting to the Roots of Agriculture

Students collect soil samples, study soil texture and structure, determine acid and base reactions, measure pH, compare moisture holding capacity of different soils, and examine the effects of soil erosion and pollutants.

Complete Kit
 AK-04 with Activity Guide and Videotape \$210.50

Consumable Replacement Pack
AK-04.1 \$39.50

Activity Guide Only
AK-04.2 (in 3-ring binder) \$7.60

Videotape Only
AK-04V \$6.50



Protein Providers—The Superb Soybean

Students examine the effect of water on seeds, learn the parts of seeds, compare monocot with dicot seeds and plants, study the effects of temperature variations on seed germination and plant growth, and investigate the many uses of soybean products in our lives.

Complete Kit
AK-05 with Activity Guide and Videotape \$172.00

Consumable Replacement Pack
AK-05.1 \$28.50

Activity Guide Only
AK-05.2 (in 3-ring binder) \$7.60

Videotape Only
AK-05V \$6.50

Five Activity Guides—AK-01.2 thru AK-05.2—in 1" 3-ring Binder
AK-05.3 \$19.15



Animals in Agriculture—Their Growth and Development

Students compare common food products with a complete livestock feed, checking for protein, sugar, starch, fat, and vitamin C. They dissect a chicken wing, comparing it with the parts and functions of the human arm. Scale animal models are used to help learn about livestock weight estimates and weight gain.

Complete Kit
AK-06 with Activity Guide \$227.00

Consumable Replacement Pack
AK-06.1 \$23.00

Activity Guide Only
AK-06.2 (in 3-ring binder) \$6.50

Videotape Only
AK-06V \$6.50



Dairy Delights—Good Nutrition from Milk

This kit provides hands-on experiences for students as they become involved in demonstrating the processes of using milk and acids, enzymes, bacteria, heat, and cold to make glue, cottage cheese, yogurt, and ice cream.

Complete Kit
AK-07 with Activity Guide \$166.50

Consumable Replacement Pack
AK-07.1 \$42.80

Activity Guide Only
AK-07.2 (in 3-ring binder) \$6.50

Videotape Only
AK-07V \$6.50



Growing Better Every Day—Using Genetics to Improve Agriculture

Colored paper clips are used to illustrate genes and chromosome chains as students learn how traits are inherited by offspring from parents. A germination study of seeds which produce albino or normal green corn plants helps students understand genotypes and phenotypes. Students learn about probabilities of transmission of two genes from parent to offspring (no Replacement Pack).

Complete Kit
AK-08 with Activity Guide \$106.00

Activity Guide Only
AK-08.2 (in 3-ring binder) \$9.80

Videotape Only
AK-08V \$6.50



Agriculture Measures Up—Using Mathematics in Agriculture

Students compute the areas and calculate the perimeters of enclosures as they study the most economical use of fencing. A small jar of shelled corn is used to simulate a grain bin as students learn to estimate weights, numbers, and volumes. Students determine the amount of fertilizer needed for the lawn of a problem home after they have calculated the

areas of the lot, house, garage, and driveway (no Replacement Pack).

Complete Kit
AK-09 with Activity Guide \$106.00

Activity Guide Only
AK-09.2 (in 3-ring binder) \$6.80

Videotape Only
AK-09V \$6.50



Rain or Shine—Weather's Effect on Agriculture

Students build a terrarium to observe the water cycle and compare the growth rates of three types of plants. Students build growth chambers to observe how various light colors influence plant growth. They use varying fertilizer rates in an attempt to grow larger, healthier plants.

Complete Kit
AK-10 with Activity Guide \$111.50

Consumable Replacement Pack
AK-10.1 \$17.50

Activity Guide Only
AK-10.2 (in 3-ring binder) \$7.30

Videotape Only
AK-10V \$6.50

Five Activity Guides—AK-06.2 thru AK-10.2—in 1" 3-ring Binder
AK-10.3 \$18.60

Ten Activity Guides—AK-01.2 thru AK-10.2—in 1 1/2" 3-ring Binder
AK-10.4 \$34.00

Set of Ten Videotapes
AK-10.5V \$56.00



Soil Erosion Hands-on Science Kit



See inside back cover for details.

Forestry

Transparencies



Forest Tree Identification, 92 fr.
Over 90 native forest species are illustrated with leaf, flower and/or fruit, and leaf arrangement characteristics. An enlarged twig illustration shows terminal buds and leaf scars in sufficient detail to teach identification features.

T780 \$61.15

Digital Slide Set



Forestry Tool Identification, 45 fr.
Illustrates 40 forestry tools with color photographs. This set shows tools on the Illinois forestry tool identification list. DS706 comes on two 3.5-inch disks. This program runs under Windows 3.X or Windows 95, but printing is restricted to Windows 95.



DS706 \$20.00

Grain Production

Units

Crop Breeding: Corn, 28p
Describes the importance of the corn crop, its breeding history, taxonomic relationships, crop characteristics, and breeding objectives. It includes a glossary and shows the steps in making a controlled cross for the crop.

AU8011 \$2.80

Growing Wheat
U4027b 28p \$2.80

Corn Production
U4039b 20p \$2.00

Growing Grain Sorghum
U4055a 20p \$2.00

Growing Canola
U4088 24p \$2.40

Digital Slide Set



Corn Insect Scouting Guide

Leads you through scouting and control procedures for common corn insects in 74 frames. By interactively selecting timing of damage and the type of damage, you arrive at line drawings and color photos of insects and learn about scouting procedures and thresholds for treatment. Color photographs of the insects and the ability to print descriptions, controls, line drawings, and management worksheets are additional features.



DS704 \$25.00

Pesticides

Units



Safe Use of Farm Chemicals Series

Safety in the use, storage, and application of agricultural chemicals is a common goal of

agriculturists and the general public. This series of 5 manuals and glossary covers the major aspects of agricultural pesticides and their safe use.

Pesticide Use: A Benefit/Risk Analysis
U4080 20p \$2.00

Reading Chemical Container Labels
U4081 16p \$1.60

Using Farm Chemicals Safely
U4082 24p \$2.40

Managing the Environmental Impact of Pesticides

U4083 24p \$2.40

Pesticide Application: Equipment & Calibration

U4084 28p \$2.80

Glossary of Pesticide Terms

U4085 8p \$.80

Transparencies, Study Guide, Cassette Tape

Safe Use of Pesticides

Pesticide types, formulations, classification, labels, and warnings are described in detail. Protective clothing and equipment and safe practices are illustrated.

T790 40 fr., w/guide* \$27.35

Soils

Units

Managing Soil pH: Agronomic Crops, 24p

Various sections of this publication discuss soil pH adjustment and include pH and limestone problems to be solved. Activities are comparing pH testing technologies, measuring the pH of the water, and a classroom study of the effect of limestone on field soil.

AU8040 \$2.40

Collecting and Preparing Soil Samples for Testing

U4001a 16p \$1.60

pH Test for Soil Acidity

U4002a 8p \$.80

Phosphorus Management

U4003c 16p \$1.60

Determining Available Potassium in Soils

U4004b 12p \$ 1.20

Nature of Soil Acidity and Major Plant Nutrients

U4005 4p \$.40

Soil Liming—A Key to Better Farming
U4006a 8p \$.80

Potassium Management
U4008b 12p \$ 1.20

Planning the Nitrogen Program
U4009b 16p \$1.60

Planning a Fertilizer Program
U4010a 8p \$.80

Hunger Signs in Crops
U4011b (with color insert), 12p \$1.50

Understanding Soils
U4052a 20p \$2.00

Using the Illinois Land-Use Scorecard
U4053a 28p \$2.80

Using the Universal Soil Loss Equation to Estimate Soil Loss
U4054b 20p \$2.00

Filmstrips, Slide Sets, Study Guides, Cassette Tapes

Collecting and Preparing Soil Samples for Testing

Since soil testing is so important in making the best decisions for proper application of fertilizers, this film is basic to introducing soil management principles.

F703a Filmstrip, 36 fr. \$13.60
S703a Slide set, 36 fr. \$20.80

Soil Color

Compares and contrasts soil colors and relates differences to soil origins and management practices.

F708 Filmstrip, 47 fr. \$17.45

Conservation Systems Workshop Material

Users will learn how to estimate water and wind erosion, identify resource problems, and select economical solutions. Includes information on leaving enough residue to reduce soil erosion and comply with state and federal erosion guidelines. *Each title includes study guide and cassette tape.*

Conservation Planning: A Tool for Better Resource Management
F726-1 Filmstrip, 80 fr. \$14.85
S726-1 Slide set, 80 fr. \$22.85

The Water Erosion Process
F726-2 Filmstrip, 80 fr. \$14.85
S726-2 Slide set, 80 fr. \$22.85

Controlling Water Erosion with Conservation Planning
F726-3 Filmstrip, 80 fr. \$14.85
S726-3 Slide set, 80 fr. \$22.85

The Wind Erosion Process
F726-4 Filmstrip, 80 fr. \$14.85
S726-4 Slide set, 80 fr. \$22.85

Controlling Wind Erosion with Conservation Planning
F726-5 Filmstrip, 80 fr. \$14.85
S726-5 Slide set, 80 fr. \$22.85

Managing Residue to Reduce Erosion
F726-6 Filmstrip, 77 fr. \$14.40
S726-6 Slide set, 77 fr. \$22.10


USDA Resource Conservation Systems Application Program
Sound management is the key phrase and purpose for conservation tillage, grass waterways, and contouring. These filmstrips or slide sets provide the information and framework for applying these practices to the land. *Each title includes a study guide and cassette tape.*

Applying Profitable Resource Conserving No-Till Systems
F760 Filmstrip, 71 fr. \$13.50
S760 Slide set, 71 fr. \$20.60

Applying Profitable Resource Conserving Mulch-Till Systems
F761 Filmstrip, 72 fr. \$13.65
S761 Slide set, 72 fr. \$20.85

Designing, Applying, and Maintaining Contoured Fields
F762 Filmstrip, 77 fr. \$14.40
S762 Slide set, 77 fr. \$22.10

Designing, Constructing, and Maintaining Grass Waterways
F763 Filmstrip, 65 fr. \$12.60
S763 Slide set, 65 fr. \$19.10

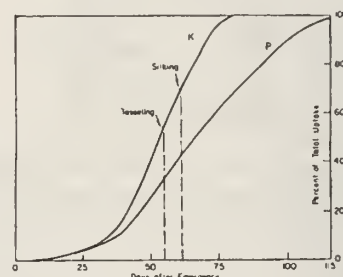
 * Cassette tapes of study guides are available at a cost of \$3.85.

Transparencies, Study Guide, Cassette Tape

Soil Science

Introduces the science of classifying and managing soils. Graphically illustrates soil particle size, textural classes, and common types of soil structure.

T701 32 fr. \$22.15



Soil Testing and Fertility

Shows equipment, procedures, and test results of soil testing. Explains how nutrients are held in soils and how soil environmental conditions affect added nutrients. Charts point out the benefits of nutrient application.

T702 57 fr., w/guide* \$40.40

Soybeans

Unit

Soybean Production
U4033b 20p \$2.00

Digital Slide Set



Soybean Insect Identification Key
Keys out soybean insects in 99 frames. Also prints an index of chemical controls

 DS703 \$25.00



Weeds

Units

The Weed Factor, 8p

Discusses how weeds and their seeds impact agriculture. Lists primary noxious, secondary noxious, and common weeds that are likely to occur in corn, soybeans, wheat, and oats in Illinois.

U4073 \$.80

Filmstrips, Slide Sets



Weed Identification

Illustrates all the weeds on the Illinois Crops Career Development Event weed identification list. Each frame has common name, one to three photographs per weed, and frame numbers. Comes with a study guide containing descriptive text.

F791c Filmstrip, 67 fr., w/guide
..... \$26.45
S791c Slide set, 67 fr., w/guide
..... \$39.85

Weed Identification Practice Set

Designed for practice and testing, this set starts with a listing of weeds and frame numbers, as stamped on the slide mountings, to serve as a key for the set. Weed photos have no associated weed names or frame numbers.

F791c(Supp)Filmstrip, 70 fr. \$25.50
S791c(Supp)Slide Set, 70 fr. ... \$39.50

Identification of Weed Seeds

F793 Filmstrip, 68 fr. \$10.20
S793 Slide set, 68 fr. \$17.00

Practice Set for 793

F793(Supp) Filmstrip, 70 fr. \$10.50
S793(Supp) Slide set, 70 fr. \$17.50

Transparencies, Study Guide

How Herbicides Work

Shows how weeds reduce crop yields and why good control is important. Illustrates life cycles of annuals, biennials, and perennials. Describes herbicides and how they work. Briefly reviews application equipment and its use.

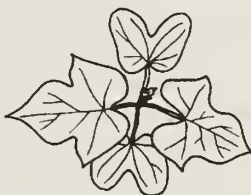
T700 46 fr. \$31.25

Herbicide Modes of Action

A basic look at the major classes of herbicides and how they work on and in weed and crop plants. Useful for understanding crop injury due to herbicides. Gives examples of herbicides in various classes.

T710 14 fr., w/guide \$12.45

Digital Slide Sets



Broadleaf Weed Identification Key

Uses line drawings to key out 26 common broadleaf weeds of soybeans and corn. Also prints a listing of weeds and their chemical controls.

 DS701 \$25.00



Grass Weed Identification Key

Uses line drawings to key out 19 common grass and grasslike weeds of soybeans and corn. Also prints out a listing of weeds and their chemical controls.

 DS702 \$20.00



Common Row Crop Weeds

Forty-eight weeds are illustrated in this presentation. Covers annual grasses, annual broadleaves, biennial broadleaves, and perennial weeds. Gives information about vegetative characteristics needed to identify seedlings at a young age, when weed control chemicals are most effective. Prints a list of the weeds and also prints drawings of key vegetative features used for identification. This program runs under Windows 3.X or Windows 95, but printing is restricted to Windows 95.

 DS710 \$25.00

Common Row Crop Weeds Practice Set

Repeats the photographs in DS710 without labels and is suitable for review and testing. Photographs are grouped into annual grass, annual broadleaf, biennial broadleaf, and perennial weed categories for the convenience of the instructor. Prints a key to the photographs and includes suggestions for creating an on-screen quiz. This program runs under Windows 3.X or Windows 95, but printing is restricted to Windows 95.

 DS710qz \$20.00

Weed Identification, Part 1

Illustrates half of the weeds of the Illinois Association Vocational Agriculture Teachers State Crops Career Development Event. Weeds from barnyardgrass to horsenettle are illustrated with one or more photos each. The remainder of the list is illustrated in DS708. Has sound in the opening frames (requires sound capability on computer).

 DS707 \$25.00

Weed Identification, Part 1 Practice Set

This is a practice set for DS707. Repeats the photographs in DS707 without labels and is suitable for review and testing. Includes suggestions for creating an on-screen quiz. Has sound in the opening frames (requires sound capability on computer).



DS707qz \$20.00

Weed Identification, Part 2

Illustrates the second half of the weeds of the Illinois Association Vocational Agriculture Teachers State Crops Career Development Event. Weeds from horseweed (marestail) to yellow woodsorrel are illustrated with one or more photos each. The remainder of the list is illustrated in DS707. Has sound in the opening frames (requires sound capability on computer).



DS708 \$25.00

Weed Identification, Part 2 Practice Set

This is a practice set for DS708. Repeats the photographs in DS708 without labels and is suitable for review and testing. Includes suggestions for creating an on-screen quiz. Has sound in the opening frames (requires sound capability on computer).



DS708qz \$20.00

Photo CDs

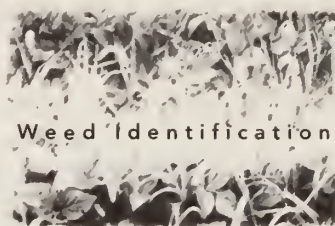


Weed Identification

Illustrates all the weeds of the Illinois Crops Career Development Event weed identification list. Frames have common names, one to three photographs per weed, and frame numbers. Comes with a study guide with text describing each weed.



PCD108a \$47.00



Weed Identification Practice Set

Introductory frames list weeds by common name and frame number to serve as a key. Images of weeds have no identifying name or frame number. The set is useful for practice and testing purposes.



PCD108a (Supp) \$45.00

Miscellaneous

Units

Integrated Pest Management Series

IPM I, Ecology, Crops, and Pests introduces students to management techniques to keep insect and other pest populations at acceptable levels without harm to the environment. *IPM II, Why IPM?* demonstrates that indiscriminate pesticide use leads to serious problems.

Integrated Pest Management I, Ecology, Crops, Pests, 36p

AU8004 \$3.60

Integrated Pest Management II, Why IPM?, 36p

AU8005 \$3.60



Nontraditional Crops, 28p

Describes several nontraditional crops, including kenaf, guayule, rapeseed, crambe, castor, lesquerella, milkweed, and others. An introductory section lists factors to consider when evaluating nontraditional crops.

U4071 \$2.80



Precision Agriculture, 28p

This unit provides a basic outline of precision agriculture and its components. The major sections of the publication are Introduction, Soil Sampling, Remote Sensing, Global Positioning Systems, Yield Monitors, Geographic Information Systems, Variable Rate Technology, and The Future. Color illustrations appear throughout the unit, and a companion Web site of precision agriculture Web links has been prepared.

U4074 \$4.20

Introduction to Plant Biotechnology, 28p

U4086 \$2.80

Filmstrip, Slide Set, Study Guide, Cassette Tape

Integrated Pest Management

This program defines IPM and examines the role of the field crop scout. Diseases, insects, rodents and birds, and weeds which damage crops are discussed. Economic thresholds and economic injury levels are explained as they relate to the development of an integrated pest management program.

F1113 Filmstrip, 79 fr., w/guide* \$30.65

S1113 Slide set, 79 fr., w/guide* \$46.45

..... \$46.45



* Cassette tapes of study guides are available at a cost of \$3.85.

Transparencies

Practical Agronomy, 40 fr.
Provides general illustrations and reference tables for agronomy. Can be used to supplement lectures and talks or for projection during student lab exercises. Major categories are Breeding, Growth and Development, Soils and Nutrition, and Miscellaneous.

T730 \$27.35



Weed Identification Digital Slide Sets

MDS707 is a collection of 4 digital slide sets on CD-ROM. Includes DS707, DS707qz, DS708, and DS708qz. These presentations were developed to illustrate the weed identification list used in Illinois for the Illinois Association of Vocational Agriculture Teachers Crops Career Development Event. Each presentation folder has a text file with information about how the presentation is organized and contains some suggestions for using the presentation. Additional details are found within the presentations. If purchased separately, these programs would cost \$90.00.

MDS707 \$35.00



Agronomy Diseases and Pests Picture Sheets

X798.02 Stored-Grain Insects	\$.45
X798.03 Grain Molds and Vertebrate Storage Pests	\$.45
X798.30 Corn Insects— Above Ground	\$.45
X798.31 Corn Insects— Below Ground	\$.45
X798.40 Soybean Insects	\$.45
X799.30 Corn Diseases I	\$.45
X799.31 Corn Diseases II	\$.45
X799.32 Corn Diseases III	\$.45
X799.33 Corn Diseases IV	\$.45
X799.34 Corn Diseases V	\$.45
X799.35 Sorghum Diseases I	\$.45
X799.36 Sorghum Diseases II	\$.45
X799.40 Soybean Diseases I	\$.45
X799.41 Soybean Diseases II	\$.45
X799.50 Alfalfa Diseases I	\$.45
X799.51 Alfalfa Diseases II	\$.45
X799.60 Clover Diseases I	\$.45
X799.61 Clover Diseases II	\$.45
X799.62 Forage Grass Diseases I ..	\$.45
X799.70 Wheat Diseases I	\$.45
X799.71 Wheat Diseases II	\$.45
X799.80 Oat Diseases	\$.45
X799.81 Barley and Rye Diseases	\$.45
X898.01 Field Crop Weeds	\$.45
X899.01 Corn Herbicide Injury I ..	\$.45
X899.02 Corn Herbicide Injury II ..	\$.45
X899.06 Soybean Herbicide Injury I ..	\$.45
X899.07 Soybean Herbicide Injury II ..	\$.45
X899.16 Injury Symptoms from Selected Herbicides	\$.45
X899.17 Herbicide Injury— Meristematic Inhibitors I	\$.45
X899.18 Herbicide Injury— Meristematic Inhibitors II	\$.45

X899.19 Herbicide Injury—Plant Growth
Regulators & Pigment Inhibitors \$.45
X899.20 Herbicide Injury—
Photosynthetic Inhibitors & Contact
Herbicides \$.45

Booklets, Binders, Manuals, Pocketbooks

Diseases and Pests of Field Crop Plants

An 8 1/2" x 11" spiral bound booklet with 31 photo identification sheets with one side of color photos and descriptions on the back. 31 sheets which include: Corn Diseases I-V, Sorghum Diseases I & II, Soybean Diseases I & II, Alfalfa Diseases I & II, Clover Diseases I & II, Forage Grass Diseases I, Wheat Diseases I & II, Oat Diseases, Barley and Rye Diseases, Corn Herbicide Injury I & II, Soybean Herbicide Injury I & II, Corn Insects-Above Ground, Corn Insects-Below Ground, Soybean Insects, Stored Grain Insects and Molds, Injury Symptoms from Selected Herbicides, Herbicide Injury—Meristematic Inhibitors I, Herbicide Injury—Meristematic Inhibitors II, Herbicide Injury—Plant Growth Regulators and Pigment Inhibitors, and Herbicide Injury—Photosynthetic Inhibitors and Contact Herbicides.

MX799.91a Booklet \$12.50

Diseases and Pests Binder

A 3-ring binder containing all 74 color photo sheets is organized with 25 tab dividers. Major divisions of the binder include diseases, herbicide injury, pests, and weeds of agronomic and horticultural crops.

MX800 3-ring binder with 25 tab
dividers and 74 color photo sheets ...
\$37.00

X800 3-ring binder with 25 tab dividers
..... \$12.00

Diseases of Soybeans and Corn

This 3" x 5 1/2" booklet (spiral-bound) is a guide to help identify diseases of soybeans and corn quickly and accurately. It assists in early, in-the-field identification when control measures are generally more effective. Over 50 different diseases are illustrated with color photos.

X830 Pocketbook \$4.50



Vegetative Identification of Common Row Crop Weeds

This spiral-bound pocketbook has been revised and expanded. Describes 48 weeds.

X840a Pocketbook \$8.00

Broadleaf and Grass and Grasslike Weed Vegetative Identification Keys

These keys describe 27 broadleaf and 20 grass or grasslike weed seedlings found in corn and soybeans. They focus primarily on characteristics of leaf arrangements, true leaves, grass ligules, and cotyledons. Sketches are used to determine proper identification.

Z840.1 Two keys, 8p \$1.25



Waterhemp Management in Agronomic Crops

In 12 pages, this booklet describes the biology and identification of waterhemp, considers its increased prevalence, and details interactions with soil-applied and postemergence herbicides in corn and soybean fields. Contains color photographs.

X855 Color booklet, 12p \$2.00

Crop Plants

Each 8 1/2" x 11" booklet has 40 sheets with clear color photographs that help identify plants quickly and accurately. Each crop plant is shown in 4 stages—seed, seedling, mature plant, and flower.

X860 Book, 82p \$11.25

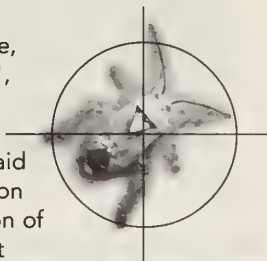
Insect Pest Identification of Corn, Soybeans, and Alfalfa

A handy 3" x 5" pocketbook with 25 color photographs of insect pests. Describes damage, scouting procedures, and guidelines for control.

X870 Pocketbook, 52p \$3.00

Field Crop Scouting Manual

This 214-page, 8 1/2" by 11", spiral-bound manual is designed to aid in identification and evaluation of common pest problems in the field. It describes nutrient deficiencies, herbicide injury, insects, diseases, and other agronomic crop problems. Has 245 color photos identifying insects, injury and disease. Includes an illustrated broadleaf and grass weeds key. Extensive revision 1999.



The popular Field Crop Scouting Manual print publication is now available on CD-ROM. The digital version, like the printed manual, has 214 pages of information. The CD-ROM consists of portable document format (PDF) files that can be read on Windows or Macintosh computers using Adobe Acrobat Reader software (a free download from www.adobe.com/prodindex/acrobat/readstep.html). All the files on the CD-ROM are indexed and can be searched by keywords.

X880c Book, 214p \$40.00



**Now
Available in
CD-ROM**

CDR880c CD-ROM \$50.00



CD Bundled with Book

SETX880 CD-ROM + book \$75.00

Crop Science: A Laboratory Manual

An 8 1/2" x 11" book that provides a well-balanced blend of fundamental principles of plant science and practical production information. Each chapter includes learning objectives, text, and laboratory exercises. Hands-on exercises develop skills and confidence. Written for the introductory level college class, but an excellent resource for high school agriculture.

X890 Book, 296p \$20.00

General Order Form

Instructional Materials Catalog 2000

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Beef Cattle

Unit

Managing the Beef Cow Herd, 16p
U1010b \$1.60

Filmstrips, Slide Sets

Breeds of Beef Cattle
F102 Filmstrip, 26 fr. \$10.10
S102 Slide set, 26 fr. \$15.30

New and Exotic Breeds of Beef Cattle

F104 Filmstrip, 64 fr. \$23.40
S104 Slide set, 64 fr. \$36.20

Aberdeen Angus Judging Classes, Part I

F103-1.1 Filmstrip, 33 fr. \$4.95
S103-1.1 Slide set, 33 fr. \$8.25



Aberdeen Angus Judging Classes, Part II

F103-1.2 Filmstrip, 31 fr. \$4.65
S103-1.2 Slide set, 31 fr. \$7.75

Hereford Judging Classes: Yearling Bulls and Yearling Heifers

F103-2.1 Filmstrip, 31 fr. \$4.65
S103-2.1 Slide set, 31 fr. \$7.75

Judging Yearling Beef Heifers

F106 Filmstrip, 38 fr. \$5.70
S106 Slide set, 38 fr. \$9.50

Additional Judging Materials on pages 28-30.

Livestock Judging Videotape Series on page 28.

Breeding & Selection

Units

Artificially Inseminating Livestock, 16p
U1002c \$1.60

Improving Animals Through Breeding, 16p

U1009a \$1.60

Judging Livestock, 20p

U1019a \$2.00

Using Livestock Production Records, 12p

U1061 \$1.20

Filmstrip, Slide Set, Study Guide



Embryo Transfer in Cattle

F120 Filmstrip, 22 fr., w/guide .. \$10.70
S120 Slide set, 22 fr., w/guide ... \$15.10

Transparencies, Study Guide

Animal Genetics and Breeding

T130a 47 fr., w/guide \$33.90

Dairy Cattle

Units

Feeding Dairy Cattle, 16p

U1020b \$1.60

Raising Dairy Heifers and Bulls, 8p

U1022 \$.80

The Cow's Udder and How It Functions, 12p

U1025 \$1.20

Dairy Cattle Breeds, 12p

U1046 \$1.20

Filmstrips, Slide Sets

Selecting Dairy Cattle

F207a Filmstrip, 61 fr. \$22.35
S207a Slide set, 61 fr. \$34.55

The Cow's Udder and How It Functions

F208a Filmstrip, 48 fr. \$17.80

Breeds of Dairy Cattle

F210 Filmstrip, 38 fr. \$14.30
S210 Slide set, 38 fr. \$21.90

Holstein Judging Classes

F211-1.1 Filmstrip, 32 fr. \$12.20
S211-1.1 Slide set, 32 fr. \$18.60

Guernsey Judging Classes

F211-2.1 Filmstrip, 32 fr. \$12.20
S211-2.1 Slide set, 32 fr. \$18.60

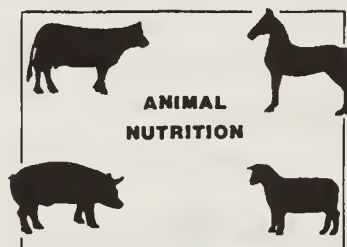
Feeds & Feeding

Unit

General Facts on Livestock Feeding, 8p

U1013a \$.80

Transparencies, Study Guide



Animal Nutrition

T131 72 fr., w/guide \$50.15

Horses

Units

Caring for the Brood Mare and Foal, 8p

U1041 \$.80

Horse Management, 20p

An introduction to horse care that touches on anatomy, breeds, facilities, equipment, feeding, and health care.

U1042 \$2.00





Horse Reproduction, 12p
Learn the basics about breeding, foaling, and care of the mare, stallion, and foal.

U1043 \$ 1.20

Horses and Horsemanship, 44p
U1047 \$4.40

Filmstrips, Slide Sets, Study Guide, Cassette Tape

Good Horsemanship
F150 Filmstrip, 43 fr. \$6.45
S150 Slide set, 43 fr. \$10.75

Horse Feeding and Nutrition
F152 Filmstrip, 79 fr., w/guide* \$12.80
S152 Slide set, 79 fr., w/guide* \$20.70

Transparencies



Horse Transparencies
T150 40 fr. \$27.35

Approved Practices for Horses
This material has information on parts of the horse, parts of the hoof, common hoof and legs problems, and conformation tips. It touches on genetics, health, reproduction, and management topics.

T151 40 fr. \$27.35



* Cassette tapes of study guides are available at a cost of \$3.85.



Meats

Flash Cards



Retail Meat Cut Identification—Flash Card Set

This is the easiest way to teach or learn to recognize the common retail cuts of beef, pork, and lamb! These 5" x 7" cards, with cut descriptions on the back, showcase 126 full-color photographs of the retail cuts of meat. Each image is printed on high-quality, glossy-finished card stock and comes in a custom-designed box.

X180b 150 cards \$75.00

Filmstrips, Slide Sets, Study Guides, Cassette Tapes

Identification of Retail Meat Cuts
F180-1 Filmstrip, 110 fr. \$39.50
S180-1 Slide set, 110 fr. \$61.50

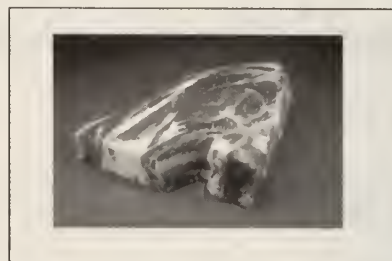
Identification of Kinds of Meat
F181a Filmstrip, 33 fr. \$12.55
S181a Slide set, 33 fr. \$19.15



Retail Beef Cut Identification—Labeled Set

Full-color photographs of the retail cuts of beef used in many state 4-H and FFA events. Each frame shows the retail name with an identifying frame number.

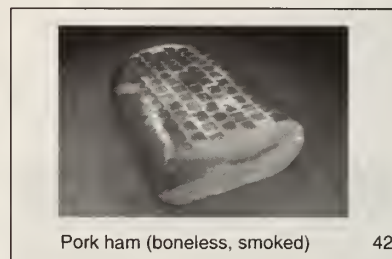
F183b Filmstrip, 74 fr., w/guide \$28.90
S183b Slide set, 74 fr., w/guide \$43.70



Retail Beef Cut Identification

This film has no identifying numbers or labels and is suitable for review and testing purposes.

F183b(Supp) Filmstrip, 74 fr., w/guide \$28.90
S183b(Supp) Slide set, 74 fr., w/guide \$43.70



Retail Pork and Lamb Cut Identification—Labeled Set

Shows the retail cuts of pork and lamb. Each numbered and labeled frame is in full color.

F186 Filmstrip, 79 fr., w/guide \$30.65
S186 Slide set, 79 fr., w/guide \$46.45



Retail Pork and Lamb Cut Identification

Suitable for testing and review purposes. Has no identifying numbers or labels.

F186(Supp) Filmstrip, 79 fr., w/guide ... \$30.65
S186(Supp) Slide set, 79 fr., w/guide ... \$46.45

Quality and Yield Grading of Beef

Carcasses	
F260 Filmstrip, 80 fr., w/guide*	
.....	\$31.00
S260 Slide set, 80 fr., w/guide*	
.....	\$47.00

Beef Slaughtering

F261 Filmstrip, 81 fr., w/guide* \$31.35	
S261 Slide set, 81 fr., w/guide* \$47.55	

Pork Carcass Cutting and Processing, Part I and Part II

F264-1 Filmstrip, 97 fr., w/guide*	
.....	\$36.95
F264-2 Filmstrip, 64 fr., w/guide*	
.....	\$25.40

S264-1 Slide set, 97 fr., w/guide*	
.....	\$56.35
S264-2 Slide set, 64 fr., w/guide*	
.....	\$38.20

Meat Evaluation Classes, Part I: Beef

F270-1 Filmstrip, 100 fr., w/guide*	
.....	\$38.00
S270-1 Slide set, 100 fr., w/guide*	
.....	\$58.00

Meat Evaluation Classes, Part II: Pork & Lamb

F270-2 Filmstrip, 85 fr., w/guide*	
.....	\$32.75
S270-2 Slide set, 85 fr., w/guide*	
.....	\$49.75

Photo CDs



Retail Beef Cut Identification

The 67 photos contained on this Kodak Photo CD are of the retail cuts of beef. It is suitable to use for teaching or for review purposes.



PCD109	\$45.00
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Retail Pork and Lamb Cut Identification

The 75 photos contained on this Kodak Photo CD are of the retail cuts of pork and lamb. This item can be used for teaching or for review.



PCD110	\$45.00
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Retail Beef Cut Identification—Labeled Set

The 67 photos on this compact disc are of the retail cuts of beef. Each is labeled with the wholesale cut name and the retail cut name.



PCD111L	\$45.00
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Retail Pork and Lamb Cut Identification—Labeled Set

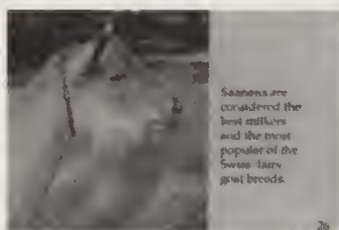
The 75 photos on this compact disc are of the retail cuts of pork and lamb. Each picture is labeled with the wholesale cut name as well as the retail cut name.



PCD112L	\$45.00
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Goats

Filmstrip, Slide Set, Study Guide, Cassette Tape



Breeds of Goats

F220 Filmstrip, 48 fr., w/guide*	
.....	\$19.80
F220(Supp) Filmstrip, Practice Set for F220, 23 fr.	
.....	\$9.05

S220 Slide set, 48 fr., w/guide*	
.....	\$29.40
S220(Supp) Slide set, Practice Set for S220, 23 fr.	
.....	\$13.65

Sheep

Units

The Sheep Enterprise, 4p

U1031a	\$.40
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Breeds of Sheep, 36p

U1049a	\$3.60
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Feeding & Managing Sheep & Lambs, 16p

U1060	\$1.60
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Filmstrips, Slide Sets, Study Guides, Cassette Tapes

Breeds of Sheep

F145a Filmstrip, 71 fr., w/guide*	
.....	\$27.85
F145a(Supp) Filmstrip, Practice Set for F145a, 39 fr.	
.....	\$14.65

S145a Slide set, 71 fr., w/guide*	
.....	\$42.05
S145a(Supp) Slide set, Practice Set for S145a, 39 fr.	
.....	\$22.45

Hampshire Sheep Judging Classes: Part I

F146-1.1 Filmstrip, 36 fr.	\$5.40
S146-1.1 Slide set, 36 fr.	\$9.00

Hampshire Sheep Judging Classes: Part II

F146-1.2 Filmstrip, 35 fr.	\$5.25
S146-1.2 Slide set, 35 fr.	\$8.75

Transparencies

Sheep Transparencies

T140 50 fr.	\$33.85
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Sheep Health Management Calendar

T141 15 fr.	\$11.10
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Digital Slide Sets



Breeds of Sheep, Part 1



DS145.1a	\$15.00
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Breeds of Sheep, Part 2



DS145.2a	\$15.00
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Small Animals & Companion Animals

Units



Rabbit Raising, 12p
U1050 \$ 1.20

Caring for the Small Laying Flock, 8p
U1052 \$.80

Feeding and Care of Dogs, 16p
U1062 \$1.60

Filmstrips, Slide Sets, Study Guides

Breeds of Dogs
F190-1 Filmstrip, Part I, 76 fr., w/guide \$29.60
F190-2 Filmstrip, Part II, 80 fr., w/guide \$31.00

S190-1 Slide set, Part I, 76 fr., w/guide \$44.80
S190-2 Slide set, Part II, 80 fr., w/guide \$47.00

Complete Breeds of Dogs Series
MF190-1 2 Filmstrips, w/guides \$48.50
MS190-1 2 Slide sets, w/guides \$73.45

Transparencies, Study Guide

Raising Rabbits
T155 21 fr., w/guide \$17.00

Swine

Units

The Swine Enterprise, 8p
U1029a \$.80

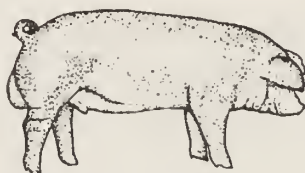
Selecting and Purchasing Hogs, 8p
U1033b \$.80

Caring for the Swine Herd During Breeding & Gestation, 4p
U1034a \$.40

Swine Feeds and Feeding, 16p
U1036a \$1.60

Caring for the Sow & Litter at Farrowing Time, 8p
U1037b \$.80

Breeds of Swine, 12p
U1045a \$ 1.20



Feed Rations for Swine, 28p
U1064 \$2.80

Filmstrips, Slide Sets, Study Guides

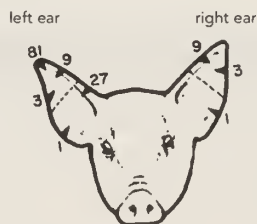
Breeds of Swine
F164b Filmstrip, 76 fr., w/guide \$29.60
F164b(Supp) Filmstrip, Practice Set for F164b, 38 fr. \$14.30

S164b Slide set, 76 fr., w/guide \$44.80
S164b(Supp) Slide set, Practice Set for S164b, 38 fr. \$21.90

Digestion in Swine
F170 Filmstrip, 47 fr. \$7.05

Duroc Swine Judging Classes
F171-1.1 Filmstrip, 30 fr. \$4.50
S171-1.1 Slide set, 30 fr. \$7.50

Transparencies, Study Guides



Swine Transparencies
T160a 36 fr., w/guide \$11.90

Swine Rations
T161 40 fr., w/guide \$13.10

Miscellaneous

Units

Common Livestock Diseases, 20p
U1005 \$2.00

Digestion in Animals, 4p
U1026a \$.40

Castrating, Docking & Dehorning, 8p
U1032 \$.80

Using Rope in Animal Agriculture, 12p
U1053 \$ 1.20

Animals in World Agriculture, 20p
U1058 \$2.00



Caring for Animals, 16p
Presents an overall view of humane animal care, from the goals of an animal project to its well-being, quality assurance, and show ring ethics.

U1065 \$1.60

Approved Practices

Approved Practices for Beef, 4p
A100 \$.40
Approved Practices for Sheep, 4p
A140 \$.40
Approved Practices for Swine, 4p
A160 \$.40
Approved Practices for Dairy, 4p
A200 \$.40



Floriculture

Units



Growing Plants from Seeds, 44p
Has information about germination requirements, special treatments, and planting procedures. Activities include Calculating, Learning about Monocotyledons and Dicotyledons, Germinating Lettuce in Light and Dark, Eliminating Germination Inhibitors, Performing the Warm Germination Test, Performing the Tetrazolium Test for Seed Viability, Making a Seed Storage Chamber, Building a Fluorescent Light Garden, and Building a Cold Frame.

AU8020 \$4.40

Plant Tissue Culture: Sterile Technique, 20p

Describes the general procedures for plant tissue culture and features information about contaminants and their control.

AU8030 \$2.00

Producing Plants by Asexual Propagation, 20p

U5006a \$2.00

Growing Flowering Annuals, 24p

U5010a \$2.40

Preparing Plant Materials for Dried Arrangements, 20p

U5035 \$2.00



Herbaceous Perennials for Landscaping, 56p

Combines information from filmstrips/slide sets 655 to 657. Contains an extensive chart of plant features, plus sections on propagation, designing, planting, maintaining, and shopping for perennials.

U5041 \$5.60

Filmstrips, Slide Sets, Study Guides, Cassette Tapes



Introduction to Plant Propagation by Tissue Culture

Introduces the viewer to the concept of growing plants by tissue culture. Supplies, equipment, and techniques used in tissue culture are described.

F600-1 Filmstrip, 61 fr., w/guide* \$10.10

S600-1 Slide set, 61 fr., w/guide* \$16.20



Bedding Plants, Part 1

Shows 17 annual bedding plants and gives cultural information. Practice sets are useful for review and testing.

Part 1

F601a Filmstrip, 63 fr., w/guide. \$25.05

Practice set for F601a

F601a(Supp) Filmstrip, 44 fr.... \$16.40

Part 1

S601a Slide set, 63 fr., w/guide \$37.65

Practice set for S601a

S601a(Supp) Slide set, 44 fr.... \$25.20

Bedding Plants, Part 2

Part 2 shows 22 bedding plants grown for flowers and foliage.

Part 2

F602a Filmstrip, 75 fr., w/guide \$29.25

Practice set for F602a

F602a(Supp) Filmstrip, 50 fr.... \$18.50

Part 2

S602a Slide set, 75 fr., w/guide \$44.25

Practice set for S602a

S602a(Supp) Slide set, 50 fr.... \$28.50

Diseases of Garden Flowers

Provides information needed for identification and control of common diseases of garden flowers.

F604 Filmstrip, 78 fr., w/guide* \$30.30

S604 Slide set, 78 fr., w/guide* \$45.90

Wiring and Taping Flowers and Foliage

Methods are explained for replacing or reinforcing natural plant stems with artificial ones. Common wire sizes, special wiring aids, wiring techniques, taping, and using picking machines are illustrated.

F606-2 Filmstrip, 33 fr., w/guide* \$5.90

S606-2 Slide set, 33 fr., w/guide* \$9.20



Preserving Flowers and Foliage

The pressing, air drying, burying, and glycerinizing methods of drying and processing flowers and foliage are described. The microwave oven is featured as an aid to burying-type drying. Photographs of flowers and foliage that preserve well are accompanied by a guide to appropriate drying methods.

F607 Filmstrip, 65 fr., w/guide* \$10.70

S607 Slide set, 65 fr., w/guide* \$17.20



Modified Stems and Roots

This filmstrip or slide set of 74 frames shows various modified stems (corms, tubers, tunicate bulbs, scaly bulbs, rhizomes, crowns, offshoots, stolons, spurs) and modified roots (tuberous roots). Photos of these structures and various photos of horticultural plants with these structures are featured. The importance of these modified plant parts for propagation is stressed. Comes with a study guide that has descriptions and text for each frame.

F608 Filmstrip, 74 fr., w/guide
..... \$28.90
S608 Slide set, 74 fr., w/guide
..... \$43.70



Herbaceous Perennials Series

Includes habit photographs of herbaceous perennials, plus close-up photos of flowers. On-screen notes on culture and use of plants are provided. 655 describes 30 perennials; 656 describes 24 perennials; 657 describes 27 perennials. Practice sets are suitable for review and testing.

F655 Part 1, Filmstrip, 77 fr., w/guide \$29.95
F655(Supp) Practice set for F655, 47 fr. \$17.45
F656 Part 2, Filmstrip, 69 fr., w/guide \$27.15
F656(Supp) Practice set for F656, 45 fr. \$16.75
F657 Part 3, Filmstrip, 81 fr., w/guide \$31.35

F657(Supp) Practice set for F657, 56 fr. \$20.60

S655 Part 1, Slide set, 77 fr., w/guide \$45.35
S655(Supp) Practice set for S655, 47 fr. \$26.85
S656 Part 2, Slide set, 69 fr., w/guide \$40.95
S656(Supp) Practice set for S656, 45 fr. \$25.75
S657 Part 3, Slide set, 81 fr., w/guide \$47.55
S657(Supp) Practice set for S657, 56 fr. \$31.80

Complete Herbaceous Perennials Series

MF655 6 Filmstrips, w/guides \$114.60
MS655 6 Slide sets, w/guides \$174.60

Ornamental Grasses

Includes habit photographs of 19 ornamental grasses, as well as close-up photos of certain ornamental characters. Notes on culture and use are provided.

F660 Filmstrip, 61 fr., w/guide \$24.35
F660(Supp) Practice set for F660, 42 fr. \$15.70

S660 Slide set, 61 fr., w/guide \$36.55
S660(Supp) Practice set for S660, 42 fr. \$24.10



Hardy Spring Flowering Bulbs

This film illustrates 19 bulbs that are hardy to at least USDA hardiness zone 6. There are photos of each bulb in flower and text that gives common and scientific names, use, and culture hints. The study guide includes a chart of the 12 divisions of the genus *Narcissus*. The practice set can be used for review and testing.

F665 Filmstrip, 62 fr., w/guide \$24.70
F665(Supp) Practice set for F665, 38 fr. \$14.30

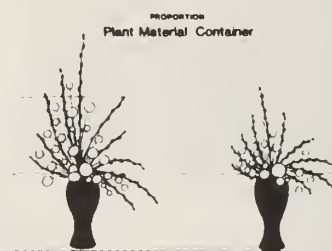
S665 Slide set, 62 fr., w/guide \$37.10
S665(Supp) Practice set for S665, 38 fr. \$21.90

Growing Plants from Seeds

This filmstrip or slide set of 79 frames is supporting material for AU8020, *Growing Plants from Seeds*. This presentation covers the basics of seeds, their makeup, plant life cycles, steps in growing from seeds, and pointers for shopping for bedding plants.

F8020 Filmstrip, 79 fr., w/guide \$30.65
S8020 Slide Set, 79 fr., w/guide \$46.45

Transparencies, Study Guide



The Principles of Floral Design

Explains design elements used in every good floral design. Emphasized are various major floral design principles, including Proportion, Balance, Rhythm, and Dominance. Radiation, repetition, transition, variety, and contrast are explained as minor design principles.

T620 42 fr., w/guide \$30.65

Digital Slide Sets

Annual Bedding Plants

Consists of color bedding plant photographs and accompanying screens of text. In all, 17 annual bedding plants are illustrated in 23 photos. Has on-screen interactive buttons.

DS601 \$20.00





Annual Bedding Plants Practice Set
Similar to practice sets for conventional slide sets and filmstrips, this set consists of the photos in DS601. There are no identifying names or frame numbers associated with the photos, so the set can be used for review or quizzes.

DS601qz \$15.00

Annual Bedding Plants 2

This set has 24 photos of 18 bedding plants, including 3 vegetables.

DS602 \$15.00

Annual Bedding Plants 2 Practice Set

Consists of photos with no identifying names—suitable for review and quizzes. Frame 3 of the set is a key that identifies all plants in the set.

DS602qz \$15.00

Photo CD



Modified Stems and Roots

This photo CD contains 93 frames that show various modified stems (corms, tubers, tunicate bulbs, scaly bulbs, rhizomes, crowns, offshoots, stolons, spurs) and modified roots (tuberous roots). Photos of these structures and various photos of horticultural plants with these structures are featured. The importance of these modified plant parts for propagation is stressed. Comes with a study guide that has descriptions and text for each frame.



PCD119 w/guide \$47.00

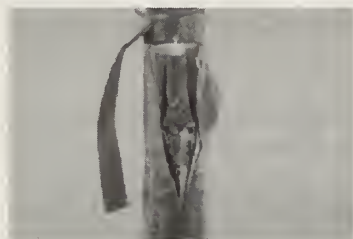
Fruits

Units

Growing Strawberries, 28p
U5027 \$2.80

Strawberry Cultivars, 8p (color)
U5027(Supp) \$1.55

Filmstrip, Slide Set, Study Guide



T-Bud Grafting

Shows the terms and techniques of T-bud grafting as a laboratory exercise. The science background, the actual timing of preparations, conducting the grafting, and expected outcomes are described and illustrated by color photographs.

F640 39 fr., w/guide \$6.80
S640 39 fr., w/guide \$10.70

Digital Slide Sets



T-Bud Grafting

Explains the materials and procedures for making a dwarf apple tree using the T-bud grafting technique. Contains color photos and line art. Includes interactive buttons to define key horticultural terms and concepts.



DS640 \$20.00



Planting and Training a Dwarf Apple Tree

In 56 frames, shows procedures for planting a dwarf apple and training it during the first 3 years. Includes a month-by-month calendar of activities. A logical follow-up to DS640 T-Bud Grafting.

DS642 \$20.00

Photo CD



Growing Apple Trees

Ninety-five frames of information about grafting, choosing a site, planting, and growing apple trees; this photo CD features common cultural procedures, has popular apple cultivar descriptions, and illustrates major diseases and pests. A good overview of apple tree culture that comes with a 28-page study guide.



PCD117 w/guide \$47.00

Landscaping & Landscape Materials

Units

Managing Landscape Waste, 28p

This unit explains the scientific aspects of decomposition and outlines strategies for recycling landscape wastes. Includes plans for a 3-bin composting center and an in-class activity that demonstrates best composting techniques.

AU8031 \$2.80

Managing Community Landscape Waste, 20p

From site selection through collection and processing to eventual distribution of the finished materials, strategies are described for several levels of complexity.

AU8032 \$2.00



Trees for Landscaping (with 8-page color insert), 44p

U5001a \$5.00

Fertilizing and Watering Shade and Ornamental Trees, 12p

U5003 \$ 1.20

Identifying Tree and Shrub Insects, 16p

U5021 \$1.60

Vines for Landscaping, 40p

U5034 \$4.00

Plant Hardiness, 12p

U5037 \$ 1.20

Pruning and Care of Trees and Shrubs, 60p

U5040 \$6.00

Filmstrips, Slide Sets, Study Guides, Cassette Tapes

Introduction to Landscape Design

First in a three-part series, this film introduces a step-by-step procedure for developing a good landscape plan. The film is arranged in 4 major subtopics: Site Analysis, Design Concepts, Design Elements, and Design Mechanics.

F621-1 Filmstrip, 80 fr., w/guide* \$31.00

S621-1 Slide set, 80 fr., w/guide* \$47.00



Creating a Design

Uses background information from 621-1 to lead the student into developing a design. Drawing mechanics are given special emphasis, as is Designing Walks and Driveways, Patios and Construction Materials, Patio Construction, Designing Planting Beds and Lawn Areas, Designing Fences and Storage, Maintaining Design Lines on the Ground, and Flowers and Roses in the Garden.

F621-2 Filmstrip, 81 fr., w/guide* \$31.35

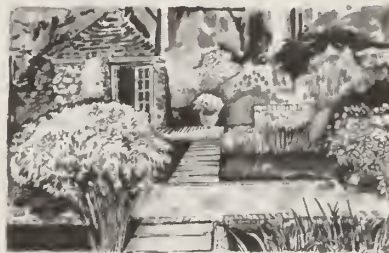
S621-2 Slide set, 81 fr., w/guide* \$47.55

Putting Plants into the Design

Correct procedures for putting plants into the design are presented. Bed staking, edging, bed preparation, planting hole excavation, top pruning, root pruning, mulching, boulder and rock incorporation, tree staking and guying, bricks and pavers, and retaining walls are featured.

F621-3 Filmstrip, 81 fr., w/guide* \$31.35

S621-3 Slide set, 81 fr., w/guide* \$47.55



Landscaping Small Gardens

This filmstrip or slide set of 100 frames shows small gardens and the plants that are appropriate to use when landscaping small gardens.

F622 Filmstrip, 100 fr., w/guide \$38.00

S622 Slide set, 100 fr., w/guide \$58.00

Identifying Coniferous Trees

F504 Filmstrip, 59 fr. \$8.85

Tree Identification

Shows tree identification characteristics as line drawings, habit illustrations, and color photos. Includes information on culture and growth rate, as well as highlighting landscape potential.

S636 Slide set, 204fr. \$113.20

Major Pruning of Trees

Describes pruning techniques such as repairing a broken leader and a split crotch. Emphasis is placed on pruning plant parts which have been damaged by ice, wind, insects, disease, and crossed branches.

F639 Filmstrip, 53 fr., w/guide* \$21.55

S639 Slide set, 53 fr., w/guide* \$32.15

Ground Covers and Their Uses

An excellent film that suggests ground covers appropriate for specific areas or sites. Fifty ground covers are illustrated with photographs and their culture is described in detail.

F646 Filmstrip, 60 fr., w/guide .. \$9.95

S646 Slide set, 60 fr., w/guide \$15.95

Nursery/Landscape Plant Identification

On each frame, a color photograph and original line drawing depict habit and identification characteristics. Each plant is identified by scientific and common names. Sets marked *Supp* have no identifying names.

F664 Filmstrip, 116 fr. \$41.60

F664(Supp) Filmstrip, Practice set for F664, 116 fr. \$41.60

S664 Slide set, 116 fr. \$64.80

S664(Supp) Slide set, Practice set for S664, 116 fr. \$64.80

Mechanical Digging of Trees and Shrubs

S641-1 Slide set, 74fr. \$18.50

Hand Digging of Trees and Shrubs

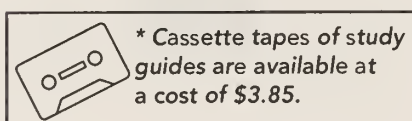
S641-2 Slide set, 45fr. \$11.25

Proper Transplanting of Trees

S641-3 Slide set, 55 fr., w/guide* \$14.70

Care of Newly Planted Trees

S641-4 Slide set, 45 fr., w/guide* \$12.20



* Cassette tapes of study guides are available at a cost of \$3.85.

Reducing and Recycling Landscape Wastes

An overall review of reducing landscape wastes such as grass, shrubbery cuttings, leaves, tree limbs, and other materials accumulated as the result of the care of lawns, shrubbery, vines, and trees.

F663 Filmstrip, 61 fr., w/guide \$24.35
S663 Slide set, 61 fr., w/guide \$36.55

Transparencies

Landscape Construction Transparencies

A comprehensive series that shows construction details for fences, walls, earth features, driveways, sidewalks, patios, lighting, and beds. Clear illustrations explain surveying, protecting existing features during construction, and tree planting procedures.

Landscape Construction Accessories
T617.1 74 fr. \$49.45

Landscape Construction
T617.2 86 fr. \$57.25

Landscape Planting and Bed Preparation
T617.3 30 fr. \$20.85

Landscape Construction
Transparency Series
MT617.1 3 Transparency sets \$102.05

Photo CDs



Landscape Trees and Shrubs (Leaves and Flowers)

Contains photographs of leaves and flowers of the plant identification class (63 woody trees and shrubs) of the Illinois Horticulture Identification list. Introductory frames give common and scientific names, while the remaining frames are plant photographs without any identifying names or numbers. Includes a study guide listing major identification features. See page ii for IBM and Macintosh system requirements.



PCD115 w/guide \$47.00

Landscape Trees and Shrubs (Stems and Buds)

Contains photographs of stems and buds of the plant identification class (63 woody trees and shrubs) of the Illinois Horticulture Identification list. Introductory frames give common and scientific names, while the remaining frames are plant photographs without any identifying names or numbers. Includes a study guide listing major identification features. See page ii for IBM and Macintosh system requirements.



PCD116 w/guide \$47.00

Digital Slide Sets



Deciduous Shrubs

Illustrates and describes 17 deciduous shrubs. 54 photos show the leaves, stems, buds, flowers, and growth habits of the shrubs. Ability to print text and monochrome photos, hear the pronunciation of scientific names (requires sound capability on computer), and jump to glossary definitions of descriptive terms are additional features.



DS604 \$25.00

Deciduous Shrubs Practice Set

Repeats the photographs in DS604 without labels and is suitable for review and testing. Photographs are arranged into stems and leaves, stems and buds, fruit, flowers, and habit for the convenience of the instructor. Prints a key to the photographs. Includes suggestions for creating an on-screen quiz.



DS604qz \$25.00



Broadleaf Evergreens

Illustrates and describes 7 broadleaf evergreens. Twenty-two photos show the leaves, stems, buds, flowers, and growth habits of the shrubs. Ability to print text and monochrome photos, hear the pronunciation of scientific names (requires sound capability on computer), and jump to glossary definitions of descriptive terms are additional features.



DS607 \$20.00

Broadleaf Evergreens Practice Set

Repeats the photographs in DS607 without labels and is suitable for review and testing. Photographs are arranged into categories such as stems and leaves, stems and buds, fruit, flowers, and habit for the convenience of the instructor. Prints a key to the photographs. Includes suggestions for creating an on-screen quiz. Has sound in the opening frames (requires sound capability on computer).



DS607qz \$15.00



Coniferous Plants

Illustrates and describes 12 coniferous plants on 3 disks. Twenty-eight photos show the leaves, stems, buds, reproductive structures, and growth habits of the plants. Ability to print text and monochrome photos, hear the pronunciation of scientific names (requires sound capability on computer), and jump to glossary definitions of descriptive terms are additional features.

DS608 \$20.00

Coniferous Plants Practice Set
Repeats the photographs in DS608 without labels and is suitable for review and testing. Photographs are arranged into categories such as stems and leaves, stems and buds, reproductive structures, and habit for the convenience of the instructor. Prints a key to the photographs. Includes suggestions for creating an on-screen quiz. Has sound in the opening frames (requires sound capability on computer).



DS608qz \$15.00



Perennials and Herbs

Illustrates 19 perennials and herbs. One or more color photos are provided for each plant, along with details about the plant and its use. Has sound in the opening frames (requires sound capability on computer). DS609 comes with documentation.



DS609 \$20.00

Perennials and Herbs Practice Set

Repeats the photographs in DS609 without labels and is suitable for review and testing. Photographs are grouped as in DS609 for the convenience of the instructor. Includes suggestions for creating an on-screen quiz. This presentation runs on Windows 3.X or 95. Has sound in the opening frames (requires sound capability on computer). DS609qz comes with documentation.



DS609qz \$20.00



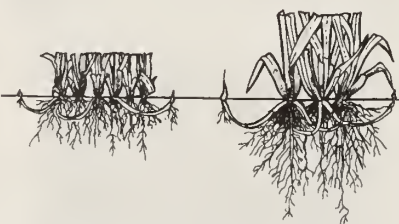
Turfgrass

Units



Turfgrass Selection and Establishment, 28p

U5008a \$2.80



Turfgrass Maintenance in the Midwest, 32p

This unit describes important maintenance principles for lawns. Mowing, Fertilizing, Irrigating, Cultivating and Dethatching, Renovating, Reestablishing, and Other Practices are the major topics. Helpful cultivation, seeding, sodding, and fertilization schedules simplify planning maintenance operations.

U5009 \$3.20

Filmstrips, Slide Sets, Study Guides, Cassette Tapes

Steps to a Better Lawn

F651a Filmstrip, 85 fr., w/guide* \$13.70
S651a Slide set, 85 fr., w/guide* \$22.20

Identifying Illinois Turfgrasses

F652 Filmstrip, 63 fr., w/guide \$10.40
S652 Slide set, 63 fr., w/guide \$16.70



* Cassette tapes of study guides are available at a cost of \$3.85.

Lawn Establishment

Illustrates selecting the method of establishment, proper soil preparation, turfgrass selection, planting, and post-planting maintenance. Also includes suggested turfgrass cultivars and cultivar combinations for different uses.

F654 Filmstrip, 70 fr., w/guide \$27.50
S654 Slide set, 70 fr., w/guide \$41.50



Interactive Turf: Cool Season Turf Diseases and Their Management

This CD-ROM is designed for anyone associated with the turfgrass industry. It contains information on the prediction, diagnosis, and management of the 22 most common diseases or problems of cool-season turfgrasses. Includes descriptions, color photographs, study questions, a diagnostic chart, audio narrations, and a glossary.

CDR01 \$75.00

Vegetables

Units

Crop Breeding: Tomato, 24p

This publication describes the importance of the tomato crop, its breeding history, taxonomic relationships, crop characteristics, and breeding objectives. It includes a glossary and shows the steps in making controlled cross for the crop.

AU8010 \$2.40

Preparing for the Vegetable Garden, 12p

U5030 \$ 1.20

Planting the Vegetable Garden, 20p

U5031 \$2.00

Caring for the Vegetable Garden, 16p

U5032 \$1.60

Growing and Harvesting Herbs, 40p

U5033 \$4.00

Miscellaneous

Units

Plant Genetics Series

Plant Genetics I discusses the primitive beginnings of plant selection, breeding, and hybridization to increase populations of plants with desired characteristics. *Plant Genetics II* takes a close look at the structures and basic types of reproduction, sexual and asexual, and the processes involved in pollination of plants. *Plant Genetics III* covers the Mendelian laws of inheritance, meiosis, and fertilization techniques. In activities, self- and cross-pollination and single-trait crosses are investigated.

Plant Genetics I: Crop Origins and Plant Improvement, 20p

AU8001 \$2.00

Plant Genetics II: Plant Life Cycles and Breeding, 32p

AU8002 \$3.20

Plant Genetics III: Plant

Reproduction and Heredity, 36p

AU8003 \$3.60

Horticultural Plant Names, 12p

U5038 \$ 1.20

Filmstrips, Slide Sets, Study Guides, Cassette Tapes

Insect Identification and Control Series

Common household and horticultural pests are illustrated. Each pest is identified by photograph; life cycle and habits are described (including damage); and chemical and nonchemical controls are listed.

Household Insects: Identification & Control

F654.1 Filmstrip, 80 fr., w/guide* \$12.95

S654.1 Slide set, 80 fr., w/guide* \$20.95

Turf Insects: Identification & Control

F654.2 Filmstrip, 39 fr., w/guide* \$6.80

S654.2 Slide set, 39 fr., w/guide* \$10.70

Vegetable Insects: Identification & Control

F654.3 Filmstrip, 80 fr., w/guide* \$12.95

S654.3 Slide set, 80 fr., w/guide* \$20.95

Shade Tree & Woody Shrub Insects: Identification & Control

F654.4 Filmstrip, 78 fr., w/guide* \$12.65

S654.4 Slide set, 78 fr., w/guide* \$20.45

Houseplant, Flower, & Fruit Insects: Identification & Control

F654.5 Filmstrip, 56 fr., w/guide* \$9.35

S654.5 Slide set, 56 fr., w/guide* \$14.95

Transparencies

Practical Horticulture, 51 fr.

Provides general illustrations and reference tables for horticulture. Use to supplement lectures and talks or for projection during student lab exercises. Major categories are Growth and Development, Landscaping, Soils and Nutrition, and Miscellaneous.

T630 \$34.50

CD-ROM



Horticulture Digital Slide Sets

MDS601 Horticulture Digital Slide Sets is a collection of 14 different horticulture presentations with a total of 639 frames that would normally sell for over \$200 if purchased separately.

Includes DS601, DS601qz, DS602, DS602qz, DS604, DS604qz, DS607, DS607qz, DS608, DS608qz, DS609, DS609qz, DS640, and DS642. Presentations DS601 to DS609qz were developed to illustrate the plant identification list used in Illinois for the Illinois Association of Vocational Agriculture Teachers Horticulture Career Development Event. Each folder has a text file with information about how the presentation is organized and contains some guides to using the presentation. Note that the Bravo player program has a help section, which explains how to operate the Bravo multimedia player.

The advantages of digital slide sets on CD-ROM include 1) The presentations can run directly from the CD-ROM, eliminating the troublesome step of transferring from diskettes to a computer hard drive; 2) Because the presentations run from the CD-ROM, they won't occupy hard drive space; 3) There is no threat of overwriting the information on the CD-ROM; and 4) CD-ROMs are portable, so they can be reviewed at home in preparation for upcoming lessons in the classroom.

MDS601 \$99.00

Manual



Master Gardener Manual

This comprehensive, two-volume manual contains over 800 pages of information (including illustrations) on Botany, Soils, Plant Propagation, Pest Management, Disease Diagnosis, Fruits, Vegetables, Flowers, Woody Ornamentals, Landscaping, Grasses, Houseplants and more. Color plates of common horticultural disease and insect problems are provided. The manual comes in two 3-ring binders with sectional tabs. Extensive revision 2000.

A CD-ROM version of this training manual will be available in the first quarter of 2000. The CD-ROM consists of portable document format (PDF) files that can be read on Windows or Macintosh computers using Adobe Acrobat Reader software (a free download from www.adobe.com/prodindex/acrobat/readstep.html). All the files on the CD-ROM are indexed and can be searched by keywords.

MG2 manual \$80.00

CDRMG2 CD-ROM \$80.00

SETMG2 manual + CD-ROM .. \$125.00



Horticulture Diseases and Pests Picture Sheets



X698.01 Flower Pests I	\$.45
X698.05 Houseplant Pests I	\$.45
X698.10 Interiorscape Pests I	\$.45
X698.11 Interiorscape Pests II ...	\$.45
X698.16 Ornamental Insects	\$.45
X698.17 Tree & Shrub Pests I	\$.45
X698.31 Turf Pests I	\$.45
X698.46 Fruit Pests I	\$.45
X698.61 Vegetable Pests I	\$.45
X698.76 Household Pests I	\$.45
X698.77 Household Pests II	\$.45
X699.01 Flower & House Plant Diseases I	\$.45
X699.02 Flower & House Plant Diseases II	\$.45
X699.03 Flower & House Plant Diseases III	\$.45

X699.04 Flower & House Plant Diseases IV	\$.45
X699.05 Flower & House Plant Diseases V	\$.45
X699.06 Flower & House Plant Diseases VI	\$.45
X699.10 Interiorscape Diseases I (Disorders)	\$.45
X699.11 Interiorscape Diseases II (Disorders)	\$.45
X699.16 Tree Diseases I	\$.45
X699.17 Tree Diseases II	\$.45
X699.18 Tree Diseases III	\$.45
X699.30 Woody Ornamental Diseases I	\$.45
X699.31 Turfgrass Diseases I	\$.45
X699.35 Turfgrasses for the Midwest	\$.45
X699.36 Turfgrass Establishment in the Midwest	\$.45
X699.46 Apple Diseases I	\$.45
X699.47 Apple Diseases II	\$.45
X699.48 Cherry & Plum Diseases I	\$.45
X699.49 Cherry & Plum Diseases II ...	\$.45
X699.50 Grape Diseases I	\$.45
X699.51 Peach Diseases I	\$.45
X699.52 Peach Diseases II	\$.45
X699.53 Bramble Fruit Diseases I	\$.45
X699.54 Strawberry Diseases I ..	\$.45
X699.55 Strawberry Diseases II .	\$.45
X699.61 Blueberry Diseases I	\$.45
X699.62 Vegetable Diseases I ...	\$.45
X699.63 Vegetable Diseases II ..	\$.45
X699.64 Vegetable Diseases III .	\$.45
X699.65 Vegetable Diseases IV .	\$.45

Diseases and Pests of Horticulture Plants

Spiral-bound booklets of photo identification sheets; each page has one side filled with 20 to 25 detailed color photos; the other side has concise descriptions. Simplifies identification of many horticultural plant diseases. 37 sheets which include: Flower & House Plant Diseases I-VI, Tree Diseases I-III, Woody Ornamental Diseases I, Turfgrass Diseases I, Apple Diseases I & II, Cherry & Plum Diseases I & II, Grape Diseases I, Peach Diseases I & II, Bramble Fruit Diseases I, Strawberry Diseases I & II, Blueberry Diseases I, Vegetable Diseases I-IV, Flower Pests I, Houseplant Pests I, Interiorscape Pests I, Interiorscape Pests II, Fruit Pests I, Ornamental Insects, Tree and Shrub Pests I, Turf Pests I, Vegetable Pests I, Interiorscape Diseases I (Disorders), and Interiorscape Diseases II (Disorders).

MX699.96a \$14.75

FFA, SOEP, Record Books

Units

Standards for Measures of Efficiency for 1999, 8p

This item, based on FBFM records from the previous year, provides standards for use in analyzing and evaluating student records. It is revised each year.

U2020 \$.80



History of the Illinois FFA, 16p

This unit covers the history of the Illinois FFA from the beginning to the 1990s.

U7001a \$1.60



R9800 Series of SAE Records – 1998

This SAE Record Book is designed for use in a 3-ring binder. All record book pages are 3-hole punched. The basic book consists of 12 white pages and a gold-colored cover. Each student with a Supervised Agriculture Experience Program needs the basic book. To this basic book, each student will need to add a special section for each Animal, Business and Crop Enterprise in that student's SAE. Certain extra pages are available in pads of 25 sheets for those students who need additional pages for their records. Also, an attractive 3-ring binder with gold-colored cover and spine inserts is available. A practice problem for student use was developed from two previous practice problems. A key to the problem is available.

Sections for Basic Book

Records of My Supervised Agriculture Experience Program, basic book with cover, 12 white pages, bright yellow cover
R9800 \$1.50

Animal Enterprise, 16 yellow pages
R9801 \$1.25

Business Enterprise, 14 blue pages
R9802 \$ 1.25

Crop Enterprise, 14 green pages
R9803 \$ 1.25

Extra Pages, bundles of 25, 3-hole punched

Record of Experiences – Animal, p. 5AX, yellow
R9804 \$2.00

Receipts – Animal, p. 9AX, yellow
R9805 \$2.00

Cash and Noncash Expenses – Animal, p. 11AX, yellow
R9806 \$2.00

Training Agreement/Training Plan – Business, p. 3BX, blue
R9807 \$2.00

Record of Experiences – Business, p. 5BX, blue
R9808 \$2.00

Wage/Labor Summary – Business, p. 7BX, blue
R9809 \$2.00

Receipts – Business, p. 9BX, blue
R9810 \$2.00

Cash and Noncash Expenses – Business, p. 11BX, blue
R9811 \$2.00

Record of Experiences – Crop, p. 5CX, green
R9812 \$2.00

Receipts – Crop, p. 9CX, green
R9813 \$2.00

Cash and Noncash Expenses – Crop, p. 11CX, green
R9814 \$2.00



Supplemental Materials

Practice Problem for R9800 Record Book
R9815 \$2.00

Key to Practice Problem, (R9815)
R9816 \$3.50

3-ring Binder for Student SAE Records
Includes gold-colored cover and spine inserts
R9817 \$5.00

SAE Record Book for Agribusiness — 1991 Version (gold)

Records of My Supervised Exp. Program—Agribusiness Book, 36p, plus cover
R300a \$2.50

Filler for additional Enterprises pages in the Agribusiness Book, 32p
R300a.F \$2.00

Extra Pages

Training Agreement/Training Plan, Pad/50
R300a.T \$3.00

Receipts, pack/20
R300a.R \$1.50

Expenses, pack/20
R300a.E \$3.00

Production Record Books — 1991 Version (blue) Basic Book Sections

Records of My Supervised Agriculture Experience Program—Production, basic book and covers (white pages)
R901.1 \$2.00

Livestock Enterprise (yellow pages)
R901.2 \$1.00

Crop Enterprise (green pages)
R901.3 \$.50

Extra Pages

Feed Records for Livestock, pad/20
R901.4 \$1.50

Notes and Observations Sheets for Livestock, pad/20
R901.5 \$1.50

Notes and Observations Sheets for
Crops, pad/20
R901.6 \$1.50

Judging Materials

Unit

Marking Animal Sciences Contest
Cards, 20p
U1070 \$2.00

Judging Manuals

Judging Beef Cattle
J100a \$3.85

Judging and Grading Poultry and
Eggs
This manual for the Poultry CDE has
important information on judging
chicken patties and a parts
identification list.

J120b \$3.85



Judging Sheep
J140a \$3.85



Judging Horses
J150a \$3.85

Judging Swine
J160a \$3.85

Meat Judging and Grading
J180f \$3.85

Judging Dairy Cattle
J200 \$1.10

Judging, Identifying, and Scoring
Dairy Products
Of the recent changes made to this
manual, the most important to
examine are the sources of questions
for the written exam, the expansion of
the Real vs. Artificial list of products,
changes made on the cards, and
additions to the reference list.

J250c \$3.85

Crop Judging
J790 \$3.85

Judging Samples

Sample Grain Rings
(available August to December while
quantities last)
Z7002 \$30.00

Crop Seed Samples (34 crops in
storage box)
Z7003 \$20.00

Soil Judging

Land-Use Scorecards (Prod.-Ag) 100
pt.
J700 pkg. of 25 \$4.00

Land-Use Scorecards (non-Ag. Use)
116 pt.
J701 pkg. of 25 \$4.00

Special version of J701 for IL IAVAT
Sections 16 and 17
J701.16 pkg of 25 \$4.00

Tables for Soil Judging Scorecards
J702 pkg. of 10 \$1.60

Special version of J702 for IL IAVAT
for Sections 16 and 17
J702.16 pkg. of 10 \$1.60

Videotapes

Livestock Judging Videotape Series

Visual Appraisal of Yearling Beef
Heifers
V100 11:49 min. \$30.00



Selection, Attributes, and Faults
V101 10:55 min. \$30.00

Placing and Discussion of
Commercial Chianina Heifers
V102 13:32 min. \$30.00

Oral Reasons in Livestock Judging
V103 12 min. \$30.00

Judging Cards Used in Illinois State Career Development Events

Specify type and color (B=blue,
G=green, P=pink, S=salmon,
Y=yellow)
Sold only in bundles of 50
Agribusiness Management and
Agricultural Mechanics—No judging
cards used.

CROPS

J999.100B Regular Placing \$3.50
J999.100G Regular Placing \$3.50
J999.100P Regular Placing \$3.50
J999.100S Regular Placing \$3.50
J999.100Y Regular Placing \$3.50
J999.107B Crop Seed Identification ..
..... \$3.50
J999.107G Crop Seed Identification ..
..... \$3.50
J999.107P Crop Seed Identification ..
..... \$3.50
J999.107S Crop Seed Identification ..
..... \$3.50
J999.107Y Crop Seed Identification ..
..... \$3.50
J999.108B Weed Identification ... \$3.50
J999.108G Weed Identification ... \$3.50
J999.108P Weed Identification ... \$3.50
J999.108S Weed Identification ... \$3.50
J999.108Y Weed Identification ... \$3.50

DAIRY

J999.100B Regular Placing \$3.50
J999.100G Regular Placing \$3.50
J999.100P Regular Placing \$3.50
J999.100S Regular Placing \$3.50
J999.100Y Regular Placing \$3.50
J999.101B Production Ring \$3.50
J999.101G Production Ring \$3.50
J999.101P Production Ring \$3.50
J999.101S Production Ring \$3.50
J999.101Y Production Ring \$3.50
J999.127B Pedigree Ring \$3.50
J999.127G Pedigree Ring \$3.50
J999.127P Pedigree Ring \$3.50
J999.127S Pedigree Ring \$3.50
J999.127Y Pedigree Ring \$3.50

DAIRY FOODS

J999.113B Scoring and Criticizing Milk Samples	\$5.00
J999.113G Scoring and Criticizing Milk Samples	\$5.00
J999.113P Scoring and Criticizing Milk Samples	\$5.00
J999.113S Scoring and Criticizing Milk Samples	\$5.00
J999.113Y Scoring and Criticizing Milk Samples	\$5.00
J999.114B Scoring and Criticizing Milker Unit Heads	\$5.00
J999.114G Scoring and Criticizing Milker Unit Heads	\$5.00
J999.114P Scoring and Criticizing Milker Unit Heads	\$5.00
J999.114S Scoring and Criticizing Milker Unit Heads	\$5.00
J999.114Y Scoring and Criticizing Milker Unit Heads	\$5.00
J999.115B Identification of Cheeses	\$5.00
J999.115G Identification of Cheeses	\$5.00
J999.115P Identification of Cheeses	\$5.00
J999.115S Identification of Cheeses	\$5.00
J999.115Y Identification of Cheeses	\$5.00
J999.117B California Mastitis Test	\$5.00
J999.117G California Mastitis Test	\$5.00
J999.117P California Mastitis Test	\$5.00
J999.117S California Mastitis Test	\$5.00
J999.117Y California Mastitis Test	\$5.00
J999.118B Real Versus Artificial Dairy Foods/Products	\$5.00
J999.118G Real Versus Artificial Dairy Foods/Products	\$5.00
J999.118P Real Versus Artificial Dairy Foods/Products	\$5.00
J999.118S Real Versus Artificial Dairy Foods/Products	\$5.00
J999.118Y Real Versus Artificial Dairy Foods/Products	\$5.00
J999.119B Sediment Disc Samples ...	\$5.00
J999.119G Sediment Disc Samples ...	\$5.00
J999.119P Sediment Disc Samples	\$5.00
J999.119S Sediment Disc Samples	\$5.00
J999.119Y Sediment Disc Samples ...	\$5.00
J999.129B Dairy Foods Exam ...	\$5.00

HORSE

J999.100B Regular Placing	\$3.50
J999.100G Regular Placing	\$3.50
J999.100P Regular Placing	\$3.50
J999.100S Regular Placing	\$3.50
J999.100Y Regular Placing	\$3.50

LIVESTOCK

J999.100B Regular Placing	\$3.50
J999.100G Regular Placing	\$3.50
J999.100P Regular Placing	\$3.50
J999.100S Regular Placing	\$3.50
J999.100Y Regular Placing	\$3.50
J999.102B Female Selection Class (Keep—Cull)	\$3.50
J999.102G Female Selection Class (Keep—Cull)	\$3.50
J999.102P Female Selection Class (Keep—Cull)	\$3.50
J999.102S Female Selection Class (Keep—Cull)	\$3.50
J999.102Y Female Selection Class (Keep—Cull)	\$3.50
J999.103B Beef Cattle Grading (Slaughter Cattle)	\$3.50
J999.103G Beef Cattle Grading (Slaughter Cattle)	\$3.50
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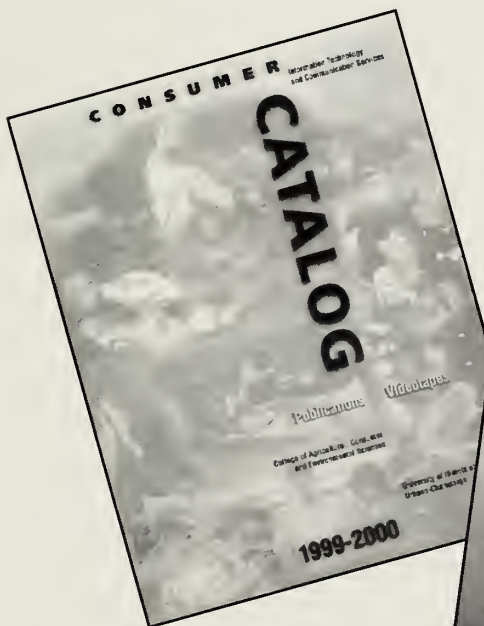
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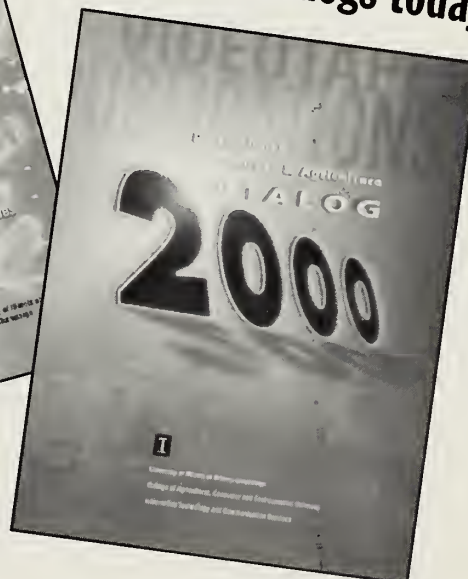
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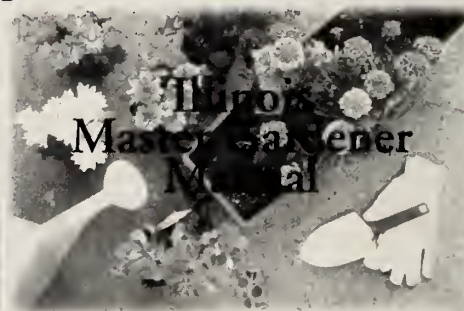


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